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ABSTRACT

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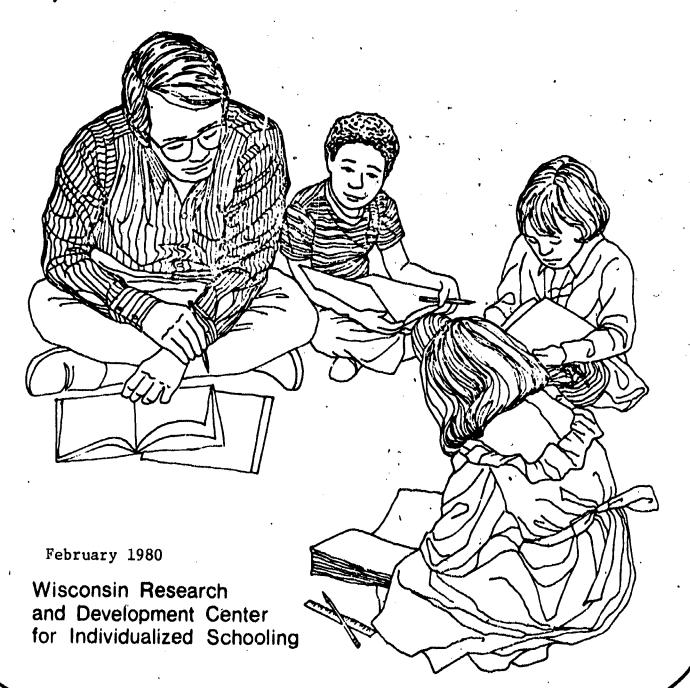
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Phase IV Project Paper 79-25 Part 1 of 2 Parts

INTEROBSERVER AGREEMENT FOR THE OBSERVATION PROCEDURES FOR THE DMP AND WDRSD OBSERVERS DESCRIPTIVE STUDY

by Norman L. Webb





Phase IV

Project Paper 79-25 Part 1 of 2 Parts

INTEROBSERVER AGREEMENT FOR THE OBSERVATION PROCEDURES FOR THE DMP AND WDRSD OBSERVERS

DESCP.IPTIVE STUDY

bу

Norman L. Webb

Report from the IGE Evaluation Project

Thomas A. Romberg Work Group Chairman

Wisconsin Research and Development Center for Individualized Schooling The University of Wisconsin-Madison Madison, Wisconsin

February 1980



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Abstract

This project paper reports the interobserver agreements and reliabilities for the observation procedures used in the Descriptive Study of Phase IV of the IGE Evaluation Project. Only data from observers at the two DMP and two WDRSD schools are reported in this paper. The four observers attended a four day training session, January 10-13 1978, to learn how to use the observation procedures. On March 16 and 17 a retraining session was held at the middle of the fourteen week investigative period to check on the interobserver agreements. In addition, on-site visits were made to each school by one of the Phase IV staff where both the observer and staff member did one or two observations together. Interobserver agreement and reliabilities were computed for each of these three situations -- training session, retraining session, and on-site visits. For each pair of observers and for each category, marginal agreements were computed. For the sets of categories--General Content, Pacing, Grouping, Materials, Learner Moves and Interactions -- Category Marginal Agreements and Cohen's Kappa were computed. Generalizability coefficients for estimates of reliability were computed for the training and retraining sessions for groups of three observers observing two or three classes for two days. The results indicated that there was high interobserver agreement at the three different check times on the categories of self-paced, otherpaced, individual, large group, paper/pencil, engaged-written, engagedcovert, and non-engaged off task. The low interobserver agreements



were explained mainly as a result of a low frequency of occurrence.

The generalizability coefficients for total engagement and total non-engagement were acceptable.

Introduction

As a comprehensive system of education, Individually Guided
Education (IGE) has as a goal the development of self-direction and
motivation for learning in students, as well as the instruction of
students at different levels of achievement. To examine IGE as an
operating system, a five-phase plan was developed (Romberg, 1976).

In Phase I, the extent to which key features of IGE had been implemented
was assessed for a large sample of schools and related to both pupil
and staff outcomes. In Phase II, more complete implementation data
were collected from a sample of thirty schools to both verify and
extend the Phase I data. Phase III was designed to examine the social
meanings of schooling as interpreted within IGE schools on a day-to-day
basis. Phase IV investigated the use of the Center's three curriculum
programs in IGE and non-IGE situations. Finally, Phase V will provide
a discussion of the implications of the overall project to significant
contemporary issues about the conception and study of schooling.

Phase IV was a two-part study: the Descriptive Study and the Comparative Study. The purpose of the Descriptive Study was to describe the use of the Wisconsin Design for Reading Skills Development (WDRSD), (Otto, 1977); Developing Mathematical Processes (DMP), (Romberg, 1977); and Prereading Skills (PRS), (Venezky & Pittelman, 1977). Two schools using WDRSD, two schools using DMP, and three schools using PRS participated in the Descriptive Study from January to May, 1978. The purpose of the Comparative Study was to compare the use of WDRSD and DMP in 1GE



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and non-IGE situations and to contrast these programs with alternative programs being used in IGE istuations. Math classes at eight schools and reading classes at eleven schools participated in the study from October 1978 until May 1979. A more detailed description of the design of Phase IV and the curriculum programs is given in Webb and Romberg (1979).

As in the other phases of the IGE Evaluation Project, only students at grade levels 2 and 5, or the IGE equivalent, participated in the math and reading skills portion of the study. The two schools that were selected to be in the reading skills portion of the Descriptive Study were both IGE schools using WDRSD at these grade levels. Both schools initially implemented the WDRSD at these grade levels. Both schools initially implemented the WDRSD program in 1971. While the Word Attack, Study Skills, and Comprehension elements were taught at both grade levels at School 452, only Word Attack was used at Grade 2, and Study Skills was used at Grade 5 at School 504.

The two DMP schools that were selected to be in the Descriptive Study were both IGE schools using DMP at these grade levels. Each school had been using DMP at the primary level for at least two years. The grade 5 DMP materials had only been available for approximately a year prior to the study. These schools then had only been using DMP at grade level 5 for one year.

The three main variables investigated in Phase IV were pupil outcomes, opportunity to learn, and means of instruction. Pupil outcomes were measured in two ways, using achievement monitoring and domain



referencing tests. The development of these tests is described in Webb (1979a) and Dunham, Nerenz, and Webb (1979). Information on the other two variables was collected using observations (Webb & Nerenz, 1979a) and teacher logs (Webb & Nerenz, 1979b).

The data collection phase of the Descriptive Study lasted seventeen weeks, beginning January 16 and ending May 19, 1978. This time was divided into two periods of seven weeks, period one, January 23 to March 10, and period two, March 27 to May 12. Tests were administered during the weeks of January 16, March 13, and May 15. This project paper discusses the interobserver agreements of the two DMP and two WDRSD observers in using the observation system for the training and retraining sessions and the on-site visits.

Observations

In order to obtain information about the means of instruction and use of time during instruction in mathematics and reading skills in Grade 2 and Grade 5 classrooms or units using the DMP and WDRSD curriculum programs, observations were conducted approximately every week during the seventeen-week investigative period. The procedures used in conducting these observations are reported in detail in Project Paper 79-32 (Webb, 1979 b) and summarized briefly below.

either randomly selected from the entire class or from a stratified sample within the units were observed using a time sampling procedure. The activity that a target student was participating in was observed for an instant and recorded as an event on the observation form, requiring approximately thirty seconds. This was followed by another thirty-second period for the observation and recording of the next student's activity. Each target student was thus observed in sequence. Then general comments were recorded concerning the whole class and requiring another thirty seconds. This cycle was repeated from the designated beginning of the reading skills or mathematics period until the end of that instructional period. The set of categories used to record information included:



General Content -

Time not spent on the content area of the

subject matter of the instruction.

Specific Content -

Indication of the objective or skill of

the student's activity.

Pacing -

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Whether the student or another individual

controls the pace of instruction.

Grouping -

The size of the group of which the student

is a part.

Materials -

The materials used in the activity.

Learner Moves -

The student's engagement or non-engagement

in the activity.

Interactions -

Verbal interactions involving the student

during the activity.

The total amount of time spent by the six target students in each of these categories during the observation period was summed, providing an estimate of the allocated and available time. These observation categories, procedures, and means of analysis are similar to those used in the Beginning Teacher Evaluation Study (Marliave, et al., 1977).

II

Observers and Observer Training

All of the observers were from the area in which the school was located and had had some previous elementary teaching experience. Most had served as teachers, substitute teachers, or aides in the school

where the observations were to be conducted. A more detailed description of each observer is given in Project Paper 79-42 (Webb & Romberg, 1979).

A description of the training and re-training sessions is given in Project Paper 79-33 (Webb & Nerenz, 1979c). Briefly, the DMP and WDRSD training session lasted for four days. The first day was spent providing the observers with an introduction to the system and a review of the curriculum aterials. The next three days were spent doing observations in groups of three, one expert and two observers, in actual classrooms. On each of these days, three classes were observed—one fifth—grade DMP class, one second—grade DMP class, and one second—grade WDRSD class. During these sessions, the two observers at the DMP schools were always grouped together, as were the two observers at the WDRSD schools. The expert observers did observations with both pairs of observers at least once so that each pair had some experience with each expert. The training session was designed to familiarize the observers with the system, provide them with observation experiences, and measure interobserver agreement.

Whenever two or more observers observed together, certain procedures were followed. One clock was designated as the indicator of the time intervals. If a wall clock with a second hand was not visible to all of the observers, one of the observers acted as time keeper and provided a signal when the next target student was to be observed. A period of thirty seconds was allowed to observe each target student within one cycle, with each cycle lasting 3-1/2 minutes. Communication between the observers was kept to a minimum and was used mainly to designate the beginning of



another cycle. Observations were conducted for the total class period, after which the observers reviewed the coding of each event and checked on their agreement. Discrepancies were discussed at this time

From the training session, several sources of error were considered. The definition of a category may be ambiguous, making it difficult to distinguish among behaviors that fit the category. In addition, student activities may be ambiguous, allowing for more than one interpretation of the activity. How the student is engaged can frequently be interpreted in more than one way, with very little difference in certain situations between non-engagement in an interim activity and covert engaged behavior. Such difficulty in classifying student activities is also increased due to the fact that student activities are constantly changing. Thus, variations in the instant during which the two observers view the target child represent another source of error which will influence the level of inter-observer agreement. This problem results in observer error when observations are compared event by event, but should be minimized when class marginal totals across students and events are tabulated.

The training of the observers was designed to reduce as many of these errors as possible. The categories were defined with examples in the observer's manual. Ambiguous situations were discussed and clarified. By the end of the training session, it was expected that each observer would have marginal agreement with an expert on each category of .90 or above. The generalizability coefficients were



used to indicate the degree of consistency among the raters without reference to particular level of agreement.

One problem in conducting observations over a period of time is the vigilance of the observers in performing the observations at the same level of competency at the end as at the beginning of the investigative period. To minimize this problem, all of the DMP and WDRSD observers attended a retraining session between the two halves of the investigative period. This two-day session was spent doing observations in groups of three, similar to the training session, to check on interobserver agreement. This same procedure of conducting observations with two or more observers was followed for this retaining session, and observer pairs and experts observed the same classes at the same schools for which training data were collected. In addition, on-site visits were made by Phase IV staff members to each school at least once during each period. This was a check of the observer's application of the coding system within the actual setting where data was being collected. The visit also was used to determine whether the observers were maintaining or improving the level of intercoder agreement which was reached at the training session.

All of the observations during the training and retraining sessions for DMP and WDRSD observers were conducted in actual classrooms under conditions which would be very similar to those which each observer would experience in obtaining the data. Actual classrooms were used in the training for several reasons. First, the observation system and



and procedures were complex enough that the activity of the target student could only be interpreted and coded in terms of the previous activities and behaviors, as well as the relationship with the teacher and the other students. To use 'eo tapes in the training sessions would require a high quality of video taping using a split scree of focusing on both the target student and the larger classroom setting, including the teacher and other students. This would have required substantially more preparatory time and equipment than was available.

A second reason for using the actual classroom was that the ratio of trainers to trainees was small, 1 to 2. This provided an adequate amount of time for the trainer to discuss in detail with the observers any discrepancies in the coding of classroom events following each observation. The discussions included information about the teacher, the target student, other students, and the materials, all of which were to be taken into account in coding the activities of the target children.

One disadvantage of conducting the training in actual classrooms, however, is that the observers may not be exposed to all possible situations. In an attempt to minimize this restriction in the training experiences, for the observers for DMP and WDRSD, sessions were observed in three different types of classes: one Grade 5 DMP class, one Grade 2 WDRSD class, and one Grade 5 WDRSD class. This exposed the observers to a number of situations. In addition, after the observers returned to their schools, one of the trainers visited each of them and did an on-site observation, discussing the coding of any specific situations



which had not occurred during the training session but which the observer had subsequently experienced.

Another difficulty in using actual classroom settings for the training of observers is the difficulty in separating unwanted observer errors in the coding of unambiguous examples from expected observer disagreements on ambiguous events. A detailed discussion followed each observation among the two observers and the trainer. This time was used to identify observer disagreements and to determine the reason for such conflicts. Disagreements due to ambiguous events were noted to be considered in revising the definition of the categories for the comparative study. It was not necessary to have exact agreement on each event since the observation data was processed by summing across the events for the total class period. This lessened the need for agreement on each event as long as the marginal agreements were reasonable.

Using actual classrooms during the training sessions, then, was selected as the most reasonable means of training the observers because of the small number of observers to be trained, the time available to prepare quality video-tapes, or instructional materials, and the ability to discuss each observation in detail after the observation. Also, varied types of sessions were observed and observations were analyzed to provide information about the class, meaning that frequencies were computed across events and students and allowing for some disagreement between observers on specific events.



Interobserver Agreement and Reliability of Observations

In obtaining information about the means of instruction and use of time, the observers must have a thorough knowledge of the observation system in order to interpret students' classroom activities and record these activities using the appropriate categories. Secondly, in order to have reliable data, the observers must be able to use the observation system consistently across observation days. Thus, measures of inter-observer agreement and consistency over time were needed.

Knowledge of the Observation System

The assessment of the observers' knowledge of the categories and procedures in the observation system was obtained by comparing the results of their observations by category for actual classroom sessions with those of an expert observar—one of the two Phase IV staff members who developed the observation system. The coding by the expert observer was used as the criteria for the observers to match. The level of agreement among the two expert observers was checked prior to the observer training session. This procedure of measuring the observers' knowledge of the system worked adequately for categories which were frequently observed such as pacing categories, individual or large groups, paper and pencil materials, and learner moves. For the categories that occurred infrequently, the knowledge of the observers was not tested during the training session when they occurred. These categories were given more emphasis during the on-site visits.



Reliabilites across Situations

Each DMP and WDRSD observer was to do observations at both Grades 2 and 5 from twelve to sixteen times over fourteen of the seventeen weeks composing the investigative period. In each case, the observer usually observed the same group of students using the same curriculum materials at approximately the same time of day. The only exception was at one of the WDRSD schools where students were regrouped approximately every two weeks and thus the target students were not always in the same instructional group. At this school, the observations were made on the instructional group containing the largest number of target students, with additional children observed so that the total number of students that were observed during each session was six.

Each observer then did observations on different days and at both grades two and five. In order to get an estimate of the reliability of observers across situations a generalizability coefficient (Cronbach, Gleser, Nanda, and Rajaratnam, 1972) was computed. Variance due to day was treated as a fixed effect in that some variance on each category was expected within a class from day to day. The variance components were computed using BMD: Biomedical Computer Programs (Dixon, 1971). For computing the generalizability coefficients for the WDRSD and DMP training session, data were used from the observations of two groups of two observers and one expert for three classes, one on Thursday and two on Friday. This provided, for each category, an estimate of generalizability for each set of observers and indicates the consistency among the observers across different classes.



Analysis and Results

Interobserver Agreement

Marginal agreement (Frick and Semmel, 1978) was used as the single measure of interobserver agreement in comparing each observer with the expert for specific aspects of each observation category. This agreement is a simple percentage relating the total frequency of a category across all the events for all of the target students for the two individuals. This measure of agreement was chosen since the unit of analysis is the class or I & R unit and the major analyses will use marginal totals. Marginal agreement was calculated for each category that had a sufficient number of observed events to make the measure meaningful. Calculations were generally not done for the general content categories, some of the materials categories, and some of the interactions because of low frequencies during the observed sessions.

Two measures of interobserver agreement were used in determining the accuracy of the observers compared with the expert for the set of categories, such as pacing, grouping, and learner moves. The overall marginal agreement is the mean of the individual marginal category agreements for all of the sub-categories in the set.

In addition, Cohen's kappa (κ) was computed. This coefficient takes into consideration chance agreement and is based on observed marginal distributions (Frick and Semmel, 1978). Cohen's κ coefficient was selected from among the other coefficients since



it does not require that the marginals be symmetrical and proportional to known populational marginals. Cohen's κ can also be tested for the significance of the difference between two independent κ 's and for the null nypothesis. However, the knowledge that κ is beyond chance is of little value, since, as an agreement coefficient, the desired value is much greater than 0. The value of κ indicates the proportion of events observed that are in agreement, with chance agreement excluded. One assumption for the use of κ is that the number of events is large--greater than or equal to 100--in order to assure that the proportion of events for which agreement is expected by chance remains nearly constant. Cohen's κ and the overall marginal agreement were used to determine the accuracy of the observers during the training session, the retraining session, and the on-site visits.

and are included on the tables in the appendices but are not used in the analysis. These measures were calculated to be compared with the marginal agreement and to judge their appropriateness in measuring the agreement between observers for the data collected. One measure is the nominal agreement which compares two observers on individual events. This is a stronger criterion than marginal agreement and was not used in the analyses since only marginal scores were used from the observations. Nominal agreement does give an indication of the agreement between two observers in recording



an instant of an activity rather than describing the total events over the activity.

The second measure included is Light's extension of κ (Frick and Semmel, 1978). This coefficient is algebraically equivalent to Cohen's κ , but is more versatile than the latter. Using the Light's extension of κ it is possible to provide for one category a measure of the conditional agreement with two observers which compares the agreement of one observer's score with a criterion score—the expert's score. The consideration of chance agreement is included in this coefficient. This coefficient was calculated to explore what additional information it can provide beyond the marginal agreement and Cohen's κ for the set of categories.

Generalizability of Observations

The data from the training and retraining sessions for the DMP and WDRSD observers were used to perform small generalizability studies and to calculate generalizability coefficients ($\rho_{\rm C}^2$) on some of the observation categories—pace, group, learner moves, and paper and pencil materials. During the training session two groups of three observers each observed three classes. The generalizability coefficients calculated from this data provide some measure of the ability of the observers to discriminate among classes. A high coefficient indicates that a large amount of the variance can be accounted for by differences among classes and that the variance due to the differences among observers is relatively small. A low



coefficient is due to large differences among the raters relative to the variance among classes. A zero coefficient indicates there is no variance among the classes.

In the retraining session for the DMP and WDRSD observers a cross design was used for two sets of observers. One set was composed of DMP observer 40 and expert observer 80. The other set consisted of the two WDRSD observers, 10 and 20, and expert observer 90. DMP observer 30 was only able to attend the last day of the retraining. Each set of observers observed the same three classes on two consecutive days resulting for the first set a 2 x 3 x 2 (observer x class x day) design and for the second set a 3 x 3 x 2 (observer x class x day) design. The BMD: Biomedical Computer Program 08V (Dixon, 1971) was used in calculating the variance components. Day was used as a fixed effect. The generalizability coefficient was computed using the equation:

σ · σ · σ

where σ = variance component for class

 σ'_{cc} = variance component for the interaction between teacher and class

Generalizability coefficients for the retraining session were computed for the name observation categories as for the training session. A large coefficient for the retraining session denotes that the class was the primary source of variance relative to the variance due to interactions among the class and the two variables



rater and day. A low or zero coefficient can be interpreted similar to the interpretation of the coefficients for the training session.

The coefficient should be higher for the retraining session since the observers are more experienced.

Interpretations

Training Session

Observer Agreement. The summary of the observer agreement coefficients by sets of categories for the DMP and WDRSD training sessions are given in Table 1 through Table 9. Listed in the tables for each observer-expert pair and for each category is the marginal agreement. The overall marginal agreement and Cohen's kappa (K) are given for the category set for each observer-expert pair. The contingency tables showing the frequencies for each category in each set for the training session are included in Appendix A. These tables can be consulted in order to determine the extent that the category we observed and the actual frequency of disagreement between the expert and observer.

The agreement coefficients for the pace categories are given in Table 1. The range of marginal agreements for self-paced is generally from .86 to 1.00. During one Grade 2 class using WDRSD, the expert coded six instances of self-pace which neither of the two observers noted. This resulted in a marginal agreement of zero, but is of little significance because of the low frequency of occurrence in this case and the consistently high agreements on the other occasions. The marginal agreements for other-paced generally ranges from .68 to 1.00. Two occasions with low agreement, observer pairs 30-80 and 40-90 on Friday, can be accounted for by a relatively low number of positive occurrences for other-paced coded during the class. The marginal agreements for not coding either of the pace categories vary greatly with low agreements



TABLE 1

Summary of the Category Marginal, Overall Marginal and Cohen's Kappa Observer Agreement Coefficients for the DMP and WDRSD Observers with the Expert Observers

Training Session: January 12 and 13, 1978

Pace Categories

Observer		Curriculum	n Total	Cat	Overall	Cohen's		
Pai	r	and Grade	Events Observed	Self-Paced	Other-Paced	No Pace	Maraina1	Kappa· (K)
<u>Obs^a</u>	Expert				10 10 70			(N)
		· · · · · · · · · · · · · · · · · · ·			nuary 12, 1978			
10	90	WDRSD 2	54	.86 (30) ^b	.79 (24)	- ^c (0)	.82	.81
20	9 0	WDRSD 2	54	.94 (30)	.79 (24)	- (0)	.86	. 64
30	80	WDRSD 2	60	1.00 (34)	.83 (15)	.73 (1)	.85	.86
40	- 80	WDRSD 2	60	1.00 (34)	.88 (15)	.82 (1)	.90	.88
10	80	DMP 2	84	.94 (34)	.94 (31)	1.00(19)	.96	.76
20	80	DMP 2	84	.90 (34)	.87 (31)	1.00(19)	.92	.78
30	90	DMP 2	78	.86 (48)	.68 (22)	.88 (8)	.80	.61
40	90	DMP 2	78	.78 (48)	1.00 (22)	.88 (8)	.95	. 78
	Mean	_		.94	.85	.88	.88	. 76
				Friday, Jan	uary 13, 1.78		·	•
10	90	DMP 5	30	.93 (27)	- (0)	.60 (3)	.76	. 71
20	90	DMP 5		.96 (27)	- (0)	.67 (3)	.82	.78
30	80	DMP 5		1.00 (11)	1.00 (12)	1.00 (7)	1.00	1.00
40	80	DMP 5		1.00 (11)	.92 (12)	.86 (7)	.93	.95
10	90	WDRSD 2		.00 (6)	.92 (47)	.33 (1)	.42	. 27
20	90	WDRSD 2		.00 (6)	.92 (47)	.33 (1)	.42	.06
30	80	WDRSD 2		.89 (47)	.40 (2)	.71 (5)	.67	.40
40	80	WDRSD 2		1.00 (47)	1.00 (2)	1.00 (5)	1.00	1.00
10	80	DMP 2		.97 (32)	.95 (41)	.62 (5)	.85	.82
20	80	DMP 2		1.00 (32)	.98 (41)	.80 (5)	.92	.88
30	90	DMP 2		.98 (65)	.82 (11)	.73 (8)	.84	.41
40	90	DMP 2	84	.92 (65)	.36 (11)	.89 (8)	.72	.60 -
Alpha da a d	Mean			.80	.83	.71	.78	.66

c - No events were coded for this category by either the observer or expert.



a Observers 10 and 20 observed at WDRSD schools. Observers 30 and 40 observed at DMP schools.

b Events coded by the expert.

explained by low frequency of occurrences.

The overall marginal agreement for pacing, the average of the three category marginals, ranges from .42 to 1.00. The low overall marginals correspond to occasions where one of the categories had a low frequency. Except for four of the occasions, the Cohen's K coefficients range from .60 to 1.00. The four occasions with low K's all occurred on Friday and three while observing a Grade 2 class using WDRSD. Again part of the reason for these coefficients is the disagreement between observers on a category which was observed infrequently by the expert. Overall, the observers had high agreement on the pacing categories. One observer, 30, had a few more problems with the coding of pacing than did the other. Also, there appears to be more difficulty with one class of Grade 2 WDRSD. The class differences will be studied in more detail in the generalizability study for the retraining sessions.

Most of the student available time was coded as being spent in individual work or in large groups. These two categories correspond closely to self-paced and other-paced, respectively. The marginal agreements for individual grouping are generally high ranging from .64 to 1.00. The range for large groups is also high, ranging in general from .67 to 1.00. Those coefficients below this range occurred where a very low frequency of the category was observed. The agreements in observing pairs and small groups are less stable than for the other two groupings. One reason for this is the low frequency of occurrence of these groupings. However, even considering this fact it appears that the observers had more difficulty



TABLE 2

Summary of the Category Marginal, Overall Marginal and Cohen's Kappa Observer Agreement Coefficients for the DMP and WDRSD Observers with the Expert Observers

Training Session: January 12 and 13, 1978
Grouping Categories

Observer Pair		Curriculum	Total	tal Category Marginal						Cohen's
		and Grade	Events Observed	Ind.	Pair	SmGR	LgGR	Other	Overall Marginal	Kappa (K)
<u>Ohs</u> a	Lxpert				 					
			····			ary 12, 1	978			
10	90	WDRSD 2	54	.64(20) ^b	.40 (5)	.62(13)	.81(16)	- ^c (0)	.62	.64 -
20	90	WDRSD 2	54	.74(20)	.40 (5)	.77(13)	.75(16)	- (0)	.66	.68
30	80	WDRSD 2	60	.94(31)	60 (3)	- (0)	.83(15)	.73 (11)		.82
40	80	WDRSD 2	60	.90(31)	.50 (3)	- (0)	.88(15)	.82 (11)	.78	.82
10	80	DMP 2	84	.96(26)	.67 (9)	1.00(11)	.83(19)	1.00 (19)	.89	.80
20	80	DMP 2	84	.92(26)	.78 (9)	.79(11)	.95(19)	1.00 (19)	.89	.83
30	90	DMP 2	78	.74(38)	75 (8)	.43(14)	.80(10)	.88 (8)	.72	.58
40	90	DMP 2	78	.86(38)	1.00 (8)	.57(14)	.91(10)	.88 (8)	.84	.77
	Mean		<u> </u>	.84	. 64	. 70	.84	.88	.77	.74
				Frid	ay, Janua	ry 13, 19	78			
10	90	DMP 5	30	1.00(24)	1.00 (1)	.00 (1)	.00 (1)	.60 (3)	•52	.61
20	90	DMP 5		.86(24)			.00 (1)	.67 (3)	.30	. 46
30	80	DMP 5		.82 (9)	.00 (1)	• •		1.00 (7)	.56	.90
40	80	DMP 5		.90 (9)	.00 (1)			.86 (7)	.74	.90
10	90	WDRSD 2		.00 (1)	- (0)		• •	.33 (1)	.44	. 59
20	90	WDRSD 2		1.00 (1)	- (0)		.96(52)	.33 (1)	.76	. 14
30	80	WDRSD 2		.95(41)	.50 (1)	- (0)		.71 (5)	.67	.51
40	80	WDRSD 2		1.00(41)	1.00 (6)	- (0)	1.00 (2)	-1.00(5)	1.00	.91
10	80	DMP 2		.97(31)	1.00 (1)	1.00 (4)	.95(37)	.62 (5)	.91	.84
20	80	DMP 2	=	1.00(31)	1.00 (1)	1.00 (4)	.97(37)	.80 (5)	.95	.85
30	90	DMP 2		.65(41)		0.00 (9)	0.00(3)	.72 (8)	. 36	. 41
40	90	DMP 2	= -	.66(41)	.39(23)	.22 (9)	.67 (3)	.89 (8)	.57	.50 -
,	Mean			.82	.53	.40	.66	.71′	, .65	.64

- a Observers 10 and 20 observed at WDRSD schools. Observers 30 and 40 observed at DMP schools.
- b Events coded by the expert.
- c No events were coded for this category by either the observer or expert.



in distinguishing when students were in pairs or small groups. Considering only the occasions where the positive instances of the grouping observed by the expert was at least 10% of the total number of events, the range of marginal agreement for pairs is .39 to 1.00 and for small groups is 0.00 to 1.00. The lowest agreements occurred on Friday with the observer pairs 30-90 and 40-90 for a Grade 2 DMP class. The expert coded a higher frequency of pairs and small groups in this class than in any of the others. However, the observers did not code these two categories with any larger frequency than in other classes which indicates that the observers still lacked experience in identifying the use of pairs and small groups.

The overall marginals for the set of categories are influenced by disagreements where there are a low frequency of a category coded. In these cases the Cohen's κ appears to be more representative of the situation. The Cohen's κ ranges from .58 to .83 on Thursday and from .14 to .91 on Friday. The κ = .14 occurred when there was a very high agreement on one of the categories, large group, and a very low frequency of occurrence for all of the other categories. This increased the factor due to chance agreement and lowered the value of κ . Any difference in agreement on one of the 54 events has a large effect on the value of the kappa. In general the κ 's for the set of grouping categories is reasonably high which indicates that even though the observers did not achieve great proficiency in coding pairs and small groups, overall they demonstrated an ability to code grouping since mainly large groups and individual work was used. There do appear to be some differences



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in agreement due to the expert. The observers consistently agreed more highly with expert 80 than with expert 90. Expert 80 developed the system and had the main responsibility for instructing the observers on the system. The low agreement then appears to be partly due to the expert rather than just with the observers.

Tables 3, 4, 5, 6 and 7 list the agreement coefficients for the material categories. Only paper and pencil materials (Table 3) were coded as being used in all of the classes observed. For the other materials, the coefficients are only reported for the classes where their use was coded at least once. For paper and pencil materials the marginal coefficient is high (generally above .90) as is the Cohen's K (generally above .60). Thus the observers demonstrated facility in coding the use of paper and pencil materials. Disagreements were due to the interpretation of when students were not actually using paper and pencil at the precise moment the event was coded but where paper and pencil were still part of the ongoin activity and should be coded.

Manipulatives (Table 4) were observed, with one exception, only in DMP classes. There was higher agreement on Friday than on Thursday. The marginal agreements for DMP classes on Friday was generally above .80. The Cohen K's for these ranged from .64 to .88 indicating the observers were adequate in identifying when manipulatives were being used. For the WDRSD Grade 2 class on Friday, Observer 20 coded playing bingo as using a manipulative rather than a game. This misinterpretation was discussed with the observer after the class and clarified at that time.

Games (Table 5) were observed being used very infrequently during the training session. For the Grade 2 WDRSD class on Friday, the marginal



Summary of the Category Marginal, Overall Marginal and Cohen's Mappa Observer Agreement Coefficients for the DMP and WDRSD Observers with the Expert Observers

Training Session: January 12 and 13, 1978

Paper and Pencil Material Category

Observer Pair Obs ^a Expert		· Comment and I com	Surriculum · Total and Events	Catego	Overal1	Cohen's		
		and		Paper/pencil	Paper/pencil	Other	Marginal	Kappa (K)
		Grade '	Observed	used ,	not used			
				Thursday, Janua	ry 12, 1978			
• 10	90	WDRSD 2	54	.93 (39) b	.80 (15)	- ^c (0)	.86	.85
20	90	WDRSD 2	54	.87 (39)	.40 (15)	- (0)	.64	. 40
30	80	WDRSD 2	60	.98 (49)	.00 (0)	.78 (11)	•57	.60
40	80	WDRSD 2	60	.98 (49)	.00 (0)	.82 (11)	.60	.72
10	80	DMP 2	84	.97 (61)	.67 (4)	1.00 (19)	.88	.78
20	80	DMP 2	84	1.00 (61)	1.00 (4)	1.00 (19)	1.00	. 89
30	90	DMP 2	78	.90 (55)	.67 (15)	.88 (8)	.81	.57
40	90	DMP 2	78	.90 (55)	.67 (15)	.88 (8)	81	.81
	Mean	•	·	.94	.53	.89	.77	.70
•				Friday, Januar	y 13, 1978			
10	90	DMP 5	30	.93 (27)	- (0)	.60 (3)		.71
20	90	DMP 5	30	1.00 (27)	.00 (0)	.67 (3)		.82
30	80	DMP 5	30	.83 (23)	.00 (0)	1.00 (7)		.71
40	80	DMP 5	30	.96 (23)	.00 (0)	(1.00 (7)		.82
10	90	WDRSD 2	54	.00 (6)	.92 (47)	.33 (1)		.16
20	90	WDRSD 2	54	.00 (6)	.92 (47)	.33 (1)		05
30	80	WDRSD 2	54	.94 (47)	.50 (2)	.83 (5)		.40
40	80	WDRSD 2	54	.96 (47)	.00 (2)	1.00 (5)		.82
10	. 80	DMP 2		1.00 (45)	.89 (28)	.62 (5)		.81
20	80	DMP 2	,	.98 (45)	1.00 (28)	.80 (5)		.78
30	90	DMP 2		1.00 (73)	.00 (3)	.73 (8)		.85
40	90	DMP 2	_ ·	1.00 (73)	.67 (3)	.89 (8)	.85	.95
	Hean			.80	.44	.73	.67	.65



a Observers 10 and 20 observed at WDRSD schools. Observers 30 and 40 observed at DMP schools.

b Events coded by the expert.

c - No Events were coded for this category by either the observer or expert.

TABLE 4

Summary of the Category Marginal, Overall Marginal and Cohen's Kappa Observer Agreement Coefficients for the DMP and WDRSD Observers with the Expert Observers

Training Session: January 12 and 13, 1978

Manipulative Material Category

Observer Pair		Curriculum	riculum Total	Category Marginal					Overal1	Cohen's	
		and	Events Observed		anipulative		Manipulative Not Used			Marginal	
<u>Obs</u> a	Expert	Grade '		Use			·				
				Thurse	day, Jan	uary 12,	1978				
10	90	WDRSD 2	54	,							•
20	90	, WDRSD 2	54	·		,			•		
30	80	WDRSD 2	60								•
40	80	WDRSD 2	60		h			•			
10	80	DMP 2	84	1.00	(9) ^b	1.00	•	1.00		1.00	.85
20	80	DMP 2	84	.67	(9)		(56)	1.00	(19)	.87	.87
30	90	DMP 2	78		(23)		(47)	.87	(8)	. 84	.50
40	90	DMP 2	78	.56	(23)	.64	(47)	.87	(8)	.69	.51
	Mean			.75		.86		.94		85	.68
-				Fric	lay, Jan	uary 13,	1978		•		
10	90	DMP 5	30	.64	(14)	.81	(13)	.60	(3)	.68	.67
20	90	DMP 5	30		(14)	.87	(13)	.67	(3)	.82	.88
30	80	DMP 5	30		•		,			1	
40	80	DMP 5	30							,	
10	90	WDRSD 2	54								20
20	90	WDRSD 2	54	.00	(0)	.00	(53)	. 33	(1)	. 11	.00
30	80	WDRSD 2	54								
40	80	WDRSD 2	54						>	0.0	
10	80	DMP 2	78	.92	(23)		(50)		(5)	.82	.64
20	80	DMP 2	78	.82	(23)		(50)		(5)	. 84	.70
30	. 90	DMP 2			(49)		(27)		(8)	.83	.73
40	90	DMP 2	8.4	.90), (49)	.87	(27)	.89	(8)	.89	.75
	Mean			.72		.75	5	.66)	.71	.62

a Observers 10 and 20 observed at WDRSD schools. Observers 30 and 40 observed at DMP schools.



b Events coded by the expert.

Summary of the Category Marginal, Overall Marginal and Cohen's Kappa Observer Agreement Coefficients for the DMP and WDRSD Observers with the Expert Observers

TABLE 5

Training Session: January 12 and 13, 1978

			¥	,	bame			
			m 1		Category Marginal		Overa ll	Cohen's
Obser Pai		Curriculum	Total Events	Game Used	Game Not Used	0ther	Marginal	Kappa (K)
0bs ^a	Expert	Grade	Observed					
				Thursday,	January 12, 1978			
10	90	WDRSD 2	54		•			
20	90	WDRSD 2	54	•	-1			٧,
√30	80	WDRSD 2	60					
40	80	WURSD 2	60	·				•
10	80	DMP 2	84 -	•	·			
20	80	DMP 2	84					
30	90	DMP -2	78					,
40	90	DMP 2	78	•		•		
	Mean				·			
	Mean							•
				Friday,	January 13, 1978			<u> </u>
10	90	DMP 5.	' 30			•		
20	90	DMP 5	30					
30	80	DMP 5	√ 30		•			
40	80	DMP 5	\ 30					
10	90	WDRSD 2	54	.96 (53	b -c (0)	.33 (1)	.65	. 49
20	90	WDRSD 2	54	.00 (53	.00 (0)	.33 (1)	.11	.00
30	80	WDRSD 2	54					
40	80	WDRSD 2	54		*			•
10	80	DMP 2	78		,			•
20	80	DMP 2	78				***	0.5
30	90	DMP 2	84	.00 (3)		.73 (8)	.58	.85
. 40	90	DMP 2	84	.00 (3)	.97 (73)	.89 (8)	.62	.83
	Mean			.24	.66	.57	. 49	.54



a Observers 10 and 20 observed at WDRSD schools. Observers 30 and 40 observed at DMP schools.

b Events coded by the expert.

c - No Events were coded for this category by either the observer or expert.

TABLE 6

Training Session: January 12 and 13, 1978

Audio-Visual Aid

01		C	Total	Cat	egory Marginal	1	Overall	Cohen ts
Observ Pair		Curriculum and	Total Events	AV Aid Used	AV Aid Not Used	Other	Margina1	Kappa (K)
<u>Obs</u> a	Expert	Grade	Observed				- 	·
				Thursday, Jan	nuary 12, 1978			
10	90	WDRSD 2	54					•
20	90	WDRSD 2	54		•			
30	. 80	WDRSD 2	60	1				
40	80	WDRSD 2	60					
10	80	DMP 2	84		,			
20	80	DMP 2	84					
30	90	DMP 2	78		i			
40	90	DMP 2	78				•	
. 🗸								
	Mean							
				Friday Inn	nuary 13, 1978	•		
			\20			·		
10	90	DMP 5	`30					
20	90	DMP 5	30 30					
30	80	DMP 5	. 30 30		,			•
40	80	DMP 5	30 54			•		
10	90	WDRSD 2	54 54					•
20	90	WDRSD *2. WDRSD *2	.54 54					
30	80	WDRSD 2	54 54					
40	80 80	WDRSD 2 DMP 2				,		
10	80 80	DMP 2		•				
20	80 90	DMP 2 DMP 2		.00 (1)	.97 (75)	.73 (8)	. 57	.78
30 40		DMP 2 DMP 2		.00 (1)	1.00 (75)	.89 (8)	.63	.88
40	30	DHE Z	V:T	·				
***************************************	Mean	***************************************		.00	.98	.81	.60	.83



TABLE 7

Training Session: January 12 and 13, 1978

Printed Materials

Ohear	1/0 °	Curriculum	Total		Category Mar	ginal		Overall	Cohen's
Obser Pai		and	Events	Printed		ed Mat.	Other	Marginal	Карра (к)
<u>Obs</u> a	Expert	Grade	Observed	Used		Used			
7					y, January 12,	1.978		·	
10 20 30 40 10 20	90 90 80 80 80 80	WDRSD 2 WDRSD 2 WDRSD 2 WDRSD 2 DMP 2 DMP 2	54 54 60 60 84 84		1.00 0) .98 0) .80	(29) (29) (49) (49) (65)	- ^c (0) - (0) .73 (11) .82 (11) 1.00 (19)	.93 .94 .57 .54 .66	.78 .40 .53 .40 .83
30	90	DMP 2 DMP 2	78 · 78				•		
40	90 Mean		70	.36	.94		.85	.73	1 .59
				Friday	, January 13,	1978			
10 20 30 40	90 90 80 80	DMP 5 DMP 5 DMP 5 DMP 5	30 30 30 30	.00 (0 .00 (0 .00 (0	1.00 0) .65	(27) (27) (23) (23)	.60 (3) .67 (3) 1.00 (7) .86 (7)	.47 .56 .55	.48 .64 .53 .68
10 20 30 40 10 20 30 40	90 90 80 80 80 80 90	WDRSD 2 WDRSD 2 WDRSD 2 WDRSD 2 DMP 2 DMP 2 DMP 2 DMP 2	54 54 54 54 78 78 84 84	.00 (0 .85 (2 .95 (20) .94	(53) · (20) (29)	.33 (1) .83 (5) 1.00 (5)	.11 .87 .97	.00 .67 .97
1	Mean			.26	.75		.76	.59	.57

a Observers 10 and 20 observed at WDRSD schools. Observers 30 and 40 observed at DMP schools.



b Events coded by the expert.

c -No Events were coded for this category by either the observer or expert.

TABLE 8

Training Session: January 12 and 13, 1978

Learner Moves Categories

	,	0			C	ategory	Marginal			u i i u u u u u u u u u u u u u u u u u	Overall Marginal	o z
Obser		Curriculum	10001			EnC	NI	NW	NO	Other	ra '81	ler Jpa
Pai	ir	and	Events	EnW	En0	EIIC	MT	7444	140		Ove Mar	Cohen' Kappa
0bs ^a	Expert	Grade '	Observed								<u>ي</u> ي	=
						anuary 1						
10	90	WDKSD 2	54	.54(11)b	.29(2)	.88(15)	.86 (6)	.50(12)		-c (0)		
20	90	WDRSD 2		• •	.33(2)	.83(15)	.83 (6)	•	.80(8)			
30	80	WDRSD 2	60 ·	1.00 (9)	.33(2)	.81(21)	.50 (2)		• •			
40	80	WDRSD 2	60		• •	.91(21)	.50 (2)		-	.82(11)		
10	80	DMP 2	84	.50(10)				.67(12)		1.00(19)		
20	80	DMP 2	84	.59(10)				.58(12)		1.00(19)		
30	90	DMP 2	78	.88(14)) .14 (7)		.88 (8)	.63	,
30 40	90	DMP 2	78	.82(14)	.50(3)	.86(25)	1.00 (12)) .29 (7)	.56(9)	.88 (8)	.70	.03
40						- 00	76	.49	.72		.68	.51
	Mean		=	<u>.78</u>	. 39	.82	.76	. 47	. 1 4			
			. ———	Fr:	iday, J	anuary 1	3, 1978					
			20	64(11)	.00(0)	1.00 (9)	.00(00)) 1.00(22)	1.00(5)	.60 (3)		.40
10	90	DMP 5		.65(11)	,00(0)	.44 (9)	. = (01)) .50(22)) .40(5)	.67 (3)	.44	.36
20	90	DMP 5		.86 (7)	_ (n)	.86 (6)			.33(1)	1.00 (7)	.73	.71
30		DMP 5		1.00 (7)		1.00 (6)	.50 (2)	1.90 (7)	.50(1)	.86 (7)	.69	. 79
40		DMP 5		- (0)		.76(13)	.88 (8)	.80(30))1.00(2)	.33 (1)	.63	.60
10		WDRSD 2	•	.00 (0)	.00(0)		88 (8)	.90(30))1.00(2)	.33 (1)	.58	.46
20		WDRSD .2		.80(12)	1.1		.50 (2)	1.00 (5)	.75(12)) .71 (5)	.73	. 39
30		WDRSD 2				1.00(14)			.33 (12)	1.00 (5)	./4	.57
40		WDRSD 2		.62 (5)) .59(46)	29 (4)	1.00(11))1.00 (4)) .62 (5)	.66	.43
10		-	2 78	.80 (5)		.96(46)	*	91(11)) .75 (4)) .80 (5)	.74	.49
. 20		- -:	2 78	.80 (3)) .73(22)	4	2)1.00 (7)	.95(19)1.00(11)	.) .79	.50
30			2 84	.53 (8)	1 1		, , , , ,	2) .29 (7)			•	.61
40	90	DMP 2	2 84	(0)	• (T ())	,	,					
_	Mean			.65	.35	.83′	.46	.84	.73		.66	.52

NOTE: EnW - Engaged written
NI - Non-engaged interim

EnO - Engaged oral NW - Non-engaged waiting EnC - Engaged covert NO - Non-engaged off-task

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- a Observers 10 and 20 observed at WDRSD schools. Observers 30 and 40 observed at DMP schools.
- b Events coded by the expert.
- c No Events were coded for this category by either the observer or expert.



agreement for the pair 10-90 was .97. Observer 20 misinterpreted the situation and coded manipulative rather than a game as discussed above. On the other occasion when games were coded as being observed, the expert observer (90) coded three events involving a game where the two observers did not code any games being used. Because of the low frequency of the use of games during the training session it is difficult to judge the facility of the observers to code this category. This is also true for audio-visual aids (Table 6).

Printed materials (Table 7) on several occasions were coded by one of the observers but not by the expert as for the Thursday Grade 2 WDRSD class for pairs 30-80 and 40-80 and the Friday Grade 5 DMP classes for all pairs. On these occasions the number coded by the observer is small as can be deduced from the high marginal coefficients for not using printed materials. For the occasions where the expert coded printed materials being used, the marginal agreements are high (.92, .88, .85 and .95). Thus when printed materials were observed being used by the expert the agreement was reasonably high. This supports the conclusion that, along with the coefficients from the other material categories, the observers had fairly high agreement on coding the categories coded most frequently by the expert. But, with the exception of paper and pencil, the different kinds of materials were observed so infrequently during the training session that it is difficult to assess the true capabilities of the observers to code these categories from just the data collected during the training session except that there was high agreement that the materials were not used.

There are differences among the agreement coefficients for the



agreement for the pair 10-90 was .96. Observer 20 misinterpreted the situation and coded manipulative rather than a game as discussed above. On the other occasion when a games were coded as being observed, the expert observer (90) coded three events involving a game where the two observers did not code any games being used. Because of the low frequency of the use of games during the training session it is difficult to judge the facility of the observers to code this category. This is also true for audio-visual aids (Table 6).

Printed materials (Table 7) on several occasions were coded by one of the observers but not by the expert as for the Thursday Grade 2 WDRSD class for pairs 30-80 and 40-80 and the Friday Grade 5 DMP classes for all pairs. On these occasions the number coded by the observer is small as can be deduced from the high marginal coefficients for not using printed materials. For the occasions where the expert coded printed materials being used, the marginal agreements are high (.92, .88, .85 and .95). Thus when printed materials were observed being used by the expert the agreement was reasonably high. This supports the conclusion that, along with the coefficients from the other material categories, the observers had fairly high agreement on coding the categories coded most frequently by the expert. But, with the exception of paper and pencil, the different kinds of materials were observed so infrequently during the training session that it is difficult to assess the true capabilities of the observers to code these categories from just the data collected during the training session except that there was high agreement that the materials were not used.



There are differences among the agreement coefficients for the learner move categories (Table 8) that are partially accounted for by the frequency of the number of events during which the category was Engaged oral was very infrequently coded, less than 19% of the events for each class. The marginal agreements for this category are generally low and are unstable. Non-engaged waiting was coded more frequently for some of the classes. The marginal agreements increased significantly from Thursday to Friday indicating improvement on coding this category. On Friday the average marginal agreement for non-engaged waiting is .84. Non-engaged interim is a third category that was coded infrequently and had unstable marginal agreements. The agreements are reasonable for Thursday with an average marginal agreement of .76. For Friday the average marginal agreement is lower, .46, indicating some uncertainty of the observers in coding this category. The other three categories appear to be stable across days and acceptable. The average marginal agreements on Thursday and Friday for engaged written were .78 and .65, for engaged cover, .82 and .83, and for non-engaged off-task .72 and .73. For the set of categories over both days, the Cohen's K's range from 127 to .79 with an average of .52. In general, the observers achieved an acceptable level of facility in coding three of the learner moves categories. They appeared to be more unstable in coding non-engaged interim. They improved sufficiently on Friday in coding non-engaged waiting to indicate they have a grasp of that category. Engaged oral occurred too infrequently to make any conclusions about the capability of the observers to code this category.

Table 9 lists the agreement coefficients for two of the inter-



learner move categories (Table 8) that are partially accounted for by the frequency of the number of events during which the category was coded. Engaged oral was very infrequently coded, less than 10% of the events for each class. The marginal agreements for this category are generally low and are unstable. Non-engaged waiting was coded more frequently for some of the classes. The marginal agreements increased significantly from Thursday to Friday indicating improvement on coding this category. On Friday the average marginal agreement for non-engaged waiting is .84. Non-engaged interim is a third category that was coded infrequently and had unstable marginal agreements. The agreements are reasonable for Thursday with an average marginal agreement of .76. For Friday the average marginal agreement is lower, .46, indicating some uncertainty of the observers in coding this category. The other three categories appear to be stable across days and acceptable. The average marginal agreements on Thursday and Friday for engaged written were .78 and .65, for engaged covert, .82 and .83, and for non-engaged off-task, .72 and .73. For the set of categories over both days, the Cohen's K's range from .27 to .79 with an average of .52. In general, the observers achieved an acceptable level of facility in coding three of the learner moves categories. They appeared to be more unstable in coding nonengaged interim. They improved sufficiently on Friday in coding nonengaged waiting to indicate they have a grasp of that category. Engaged oral occurred too infrequently to make any conclusions about the capability of the observers to code this category.

Table 9 lists the agreement coefficients for two of the interaction

categories,, target to student and teacher to group. These two categories were the only ones which were consistently observed across classes. The number of events coded by the expert for target to student was very small. The marginal agreements are unstable reflecting the low number of occurrences coded. There is some indication that observers tended to code more than the expert interactions of the target student talking to another student as indicated by the lack of agreement, for example, on Friday for the Grade 5 DMP class. On nine of the twenty occasions the marginal agreement for the category was .75 or above. These occasions included the two classes where the expert coded the greatest number of events involving this category, Thursday for Grade 2 DMP with pairs 30-90 and 40-90 and on Friday for Grade 2 WDRSD with pairs 30-80 and 40-80.

The category teacher to group was coded more frequently by the experts than the observers with the marginal agreement averaging .77 for Thursday and .45 on Friday. On the occasions where the expert coded the category for at least 10% of the events, the range of marginal agreement was above .60 except for one pair. The marginal agreements for not coding any interactions are high ranging from .71 to 1.00 with an average of .91. Thus observers were consistent in agreeing when interactions did not occur. Observers were less consistent in coding positive occurrences of the categories target to student and teacher to group. On most occasions these categories occurred infrequently which contributed to the instability of the agreement coefficient. It also is difficult to interpret the coefficients for the set of interaction categories because of the low frequency of the categories.



TABLE 9

Training Session: January 12 and 13, 1978

Interactions Category

			m 1	Ca	tegory Marginal		Overall	Cohen's
Obsery Pai		Curriculum	Total Events	Target to Student	Teacher to Group	None of the above	Marginal	Kappa (K)
Obs ^a	Expert	Grade '	Observed					
					anuary 12, 1978	<u> </u>		
10.	90	WDRSD 2	54	.50 (2) b	.46 (5)	.71 (45)	.39	. 27
20	90 .	WDRSD 2	[,] 54	1.00 (2)	.80 (5)	.96 (45)	. 65	.49
30	80	WDRSD 2	60	.75 (3)	.73 (11)	.96 (43)	.30	.73
40	80	WDRSD 2	60	.60 (3)	.92 (11)	.88 (43)	. 56	.67
10	80	DMP 2	84	.17 (1)	.50 (8)	.93 (56)	. 47	.32
20	80	DMP 2	84	,50 (1)	.80 (8)	.84 (56)	. 29	.32
30	90 '	DMP 2	78	1.00 (6)	.92 (13)	1.00 (55)	.49	.54
40	90	DMP 2	78	.83 (6)	1.00 (13)	1.00 (55)	.81	.73
•	Mean		·	.67	.77	.91	.50	.51
-				Friday, Ja	nuary 13, 1978			و المراجعة
		DVD E	30	.50 (1)	(0)	.93 (26)	. 29	.12
10	.90	DMP 5	30	1.00 (1)	- (0)	.93 (26)	.32	.30
20	90	DMP 5	30 30	-c (0)	.67 (3)	.96 (26)	.41	.53
30	80	DMP 5	30 ·	.00 (0)	.60 (3)	.88 (26)	.30	.48
40	80		54	.00 (0)	.73 (8)	.89 (45)	.52	. 32
10	90		54 54	- (0)	.13 (8)	.86 (45)	.25	.14
20	90	WDRSD 2	54 54	.75 (4)	0.00 (0)	.96 (47)	.53	.31
30	80	WDRSD 2	- -	1.00 (4)	- (0)	.98 (47)	. 40	.67
40	80	WDRSD 2		1.00 (4)	.62 (21)	.86 (49)	. 35	. 46
10	. 80	DMP 2	78 78	1.00 (2)	.88 (21)	.86 (49)	.61	.64
20	80	DMP 2	76 84	.33 (3)	- (0)	.92 (75)	. 38	.18
30 40	90 90	DMP 2 DMP 2	84 84	.50 (3)	0.00 (0)	.95 (75)	. 35	.36 .
	Mean			.61	.45	.92	.39	.38



a Observers 10 and 20 observed at WDRSD schools. Observers 30 and 40 observed at DMP schools.

b Events coded by the expert.

c -No Events were coded for this category by either the observer or expert.

Summarizing the results of the analyses of the marginal agreements, for most categories the marginal agreements between the observer and the expert are consistently high. A few categories were coded very infrequently making it difficult to assess the ability of the observers in coding these. These categories are pair, small group, engaged oral and most of the materials and interactions categories. The marginal coefficients for the non-engaged interim category varied by observer pair and from class to class. The coding of this category is more unstable than the others which may be related to how it is defined.

Generalizability of the Categories. The generalizability coefficients from the training session for each observer trio and for each category are given in Table 10. These can be interpreted as an indication of the amount of variance due to the class when considering the interaction between the observers and the class. A high coefficient indicates that most of the variance is due to the class and not to the difference among the observers. A low coefficient indicates that there is some interaction among the observers and the class. That is, observers coded the category differently for different classes.

The coefficients for most of the categories are high, above .8?.

Categories with consistently lower coefficients are pair, engaged-oral, non-engaged interim, and non-engaged waiting. Engaged-written has very low coefficients for the sessions with observer trios 10,20,80 and 30, 40, 90 but has high coefficients for the other three classes. Zero coefficients for some of the categories (engaged oral and non-engaged interim and waiting) indicate that there was no variance due to class. Thus the classes observed



TABLE 10
Summary Generalizability Coefficients
Training Session

		3 classes Observe		2 classes Observe	
	Observation .	10x20x90	30x40x80	10x20x80	30x40x90
	Category				
1.	Self-paced	.96	.99	. 49	.82
2.	Other-paced	.99	.97	.83	.77
3.	General Content		.69	.98	.90
4.	Individual	.95	.99	.96	.64
5.	Pair	.70	.76	.49	.33
6.	Small Group	.94	.57	.95	.99
7.	Large Group	.99	.98	.95	.98
8	General Content	.78	.69	.98	. 40
9.	Engaged-Written	.86	.91	.05	.10
LO.	Engaged-Oral	.81	.61	.00	.00
11.	Engaged-Covert	.81	.94	.46	.76
L2.	Non Engaged-Interim	.97	.37	.00	. 45
13.	Non Engaged-Waiting	.93	. 63	.00	.00
14.	Non Engaged-Off Task	.89	.71	.31	.89
15.	General Content	.36	.69	.98	.40
16.	Paper/pencil Materials	.98	.99	.99	. 94
17.	Total Engagement	.90	.93	.59	.95
18.	Total Non Engagement	.95	.85	.04	.96

were very similar on these categories. For the categories of pair and engaged written, the low non-zero coefficients indicate that the variance due to the interaction between the observer and class was high compared to the variance due to the class. On these categories there is more disagreement among the observers.

Generalizability coefficients are given for the sum of the three engaged categories (Total Engagement) and for the three non-engaged categories (Total Non-engagement). With the exception of one observer trio, the coefficients for these two composite categories are high.

Observers in some cases disagreed as to how the students were engaged or non-engaged, but they did agree that the students were engaged or non-engaged.

Summary of Training Session Observer Agreement. On many of the categories the observers demonstrated that they achieved a high degree of competency in coding the category. In coding the categories of pair, non-engaged interim and non-engaged waiting the observers were less consistent. The agreement among observers on these categories need to be checked carefully during the on-site visits and retraining sessions. A few categories (small group and engaged oral) were rarely observed by either the expert or the observers during the training session making it impossible to assess the true ability of the observers to code these categories except that there was high agreement that the categories did not occur.



Retraining Session

The summaries of the category marginals, overall marginals, and the Cohen's κ for the DMP and WDRSD retraining session are given in Tables 11 through 20. Table 21 gives the summary of means of the category marginals for both the training and retraining sessions. The summary of the means of the Cohen's κ for both sessions are given in Table 22. The generalizability coefficients for each category for the retraining session are given in Table 23. The contingency tables showing the frequencies for each category by observer pair for the retraining session are included in Appendix B.

There is still variation in the marginal agreements for categories from class to class. Often the lower marginal agreements correspond to a low frequency of positive occurrences observed by the expert. For example, in Table 12 for Thursday Grade 2 WDRSD, the lower marginal coefficients (.57 and .56) occurred when the expert only coded 7 or 5 events as individual. In Table 11 for other paced, the lower marginals of .00 and .43 on Thursday occurred when 2 and 7 events, respectively, were coded by the expert as being other paced. It appears that the observers are coding the main activity with accuracy, but if there is some deviation, such as one student working individually while the other students are working in a large group, this point is missed on occasion by some of the observers.

The means of the category marginal (Table 21) indicate that on the categories of pair, games, printed materials, engaged-writing, engaged-oral, non-engaged off-task, and teacher to group interactions the observers improved in their ability to code these after doing seven observations.



The mean marginals were down considerably for manipulatives and slightly for other-paced and target to student interactions. Manipulatives were not used as much during the classes observed for the retraining session (Table 14) as they were during the training session (Table 4). Again observers agreed closely on what materials were used over a long period of time, but were more inconsistent in agreeing when materials were used only on a few occasions. The mean of the marginals for the other categories remained approximately the same.

Considering each set of categories and the means of the Cohen's κ , paper and pencil materials, printed materials, and learner moves generally had means higher for the retraining session than for the training session (Table 22). The only category with a distinct decrease in the means of the Cohen's κ is manipulatives. The Cohen's κ can be interpreted as the percent of agreement beyond chance agreement. The κ 's above .70 are considered to be reasonably high.

Considering both the data from the training and retraining sessions there is reasonable agreement on the following categories:

Self paced

Other paced

Individual

Large Group

Paper/pencil

Engaged-written

Engaged-covert

Non-engaged off-task



42

The agreement on the category engaged-oral was low for the training sessions, but improved to an acceptable level for the retraining session. Students only occasionally would talk during the classes observed so that the category of engaged-oral had very low frequencies. The class with the highest frequency of positive occurrences of engaged-oral for the retraining session (Table 19) had 8 of 90 events coded by the expert as having engaged-oral.

The categories with consistently low observer agreement are:

Pair

Small group

Printed materials

Non-engaged interim

Non-engaged waiting

Target to student interactions

Teacher to group interactions

For the categories of pair and small group for the retraining sessions (Table 12), agreement was reasonable if, for either of the groupings, the grouping occurred on more than two events. Disregarding the manginal agreements for pair when the expert coded pairs for two or less events, the average marginal agreement was .70 and .76 for the two days. On no occasion in the retraining session did an observer code a pair when the expert did not code any pairs. For the five observer pairs where the expert observed more than two small groups, the average marginal agreement was .90. On only one of the occasions, Grade 2 DMP Friday observers 10-20-90, did the observers code a small group when the expert did not observe any



reasonable when pairs and groups were used more than just on occasion during the period. The observers were not as sensitive when two or three students would form a group, discuss some work and then continue with their own individual work. These "informal" pairs and small groups were more difficult for the observers to identify.

For printed materials (Table 17) the agreement was high when printed materials were not used. The disagreement on when printed materials were used is mainly due to deciding if the printed materials were part of the on-going activity. The observers were to code printed materials if the materials were on the desk and used at sometime during the on-going activity. The student did not have to be reading from the printed material at the moment observed for printed materials to be coded as part of the on-going activity. Instead observers generally coded printed materials when they were actually being used. This is also true for the other materials categories of games, audio-visual and manipulatives. However, these materials were used very infrequently making it difficult to get any true measure of observer agreement.

The two non-engaged categories of interim and waiting are similar to pair and small group categories. On occasions where the expert observed two or more events with one of these categories, there was reasonable agreement. The average marginal agreements for each of the two days, when only counting occasions with more than two events coded by the expert, were .80 and .74 for interim and .75 and .69 for waiting. Again the observers agreed reasonably well if the category occurred on more than two events. Disagreement on these categories generally occurred when there was little time spent in interim or waiting activities.



Interactions occurred infrequently during the classes (Table 20). Marginal agreements are reported for the two interactions that were coded the most, target to student and teacher to group. For both of these interactions the number of positive events observed by the expert was generally 20% or less of the total number of events coded. The marginal agreements are high for observer pairs coding when there were no interactions. The marginal agreements, however, are low on target to student interaction. For teacher to group interactions the agreements are reasonably high on one day (Friday), but lower on the other. The average marginal agreements are similar to those for the training session with a similar variation between the two days. Observer agreement is acceptable in coding teacher to group interactions since agreement is generally high when there were a significant number of interactions, more than 10% of the events. Also the agreement increased on the second day of the training session indicating improvement of the ability in observing this category. The frequency of occurrence of target to students was so small that it is difficult to measure the true capability of the observers in coding this category except that there is high agreement in not coding the category.

Generalizability Coefficients. The generalizability coefficients computed across the three classes for both days of the retraining session for each observer group are given in Table 23. The coefficients are calculated treating day as a fixed effect. That is, the assumption was made that variations in the categories from day to day are expected and are not treated as error. Most of the coefficients are extremely high, above .90, indicating that the variation among the observers was very low in



relationship to the variation among the classes. In some cases the coefficient is zero, general content for observers 10, 20, 90 and engaged-oral for observers 40, 80. This indicates that there was very little variation among the classes for the category. In the case of general content one observer group had .00 and the other had a coefficient of .96. This indicates that when there was enough variation among the classes on general content the observers agreed highly on this category. For engaged-oral, both coefficients are low. Thus there is disagreement on this category even though there is little variation among classes, partly because of the low frequency of the category. The only other category that is low for both observer groups is pair. There is some disagreement among observers across classes in coding the use of pairs.

Other categories have coefficients that vary between the two observation groups -- engaged-covert, total engagement, non-engaged interim, and non-engaged off task. The observers in one of the groups varied somewhat on these categories in realtionship to the variance among classes. This indicates that these categories are more unstable than the others but still reasonably high with coefficient values of .60 or above. Total engagement for the group 10,20,90 has a coefficient of .46 which is fairly low. This probably is associated with the variation among observers in coding engaged-oral since the coefficients for the other two engaged categories are high.

Retraining Session Summary. On most of the categories the agreement among observers in coding the categories is high as indicated by the high



marginal agreements and generalizability coefficients. The categories with questionable agreement are generally those which were observed infrequently. The coding of pairs was low as indicated by both the marginal agreements and the generalizability coefficients. Observers improved from the training session to the retaining session in coding engaged-oral, but observers still varied greatly on the category as indicated by the low generalizability coefficients. Non-engaged interim and nonengaged waiting both had low marginal agreements but had relatively high generalizability coefficients. Observers disagree somewhat in coding one class on these categories but the agreement is sufficient enough to distinguish the use of these categories among classes. Frequent use of small groups is coded with high agreement. An occasional use of small groups where three or four students come together briefly to work on a problem and then continue with their individual work is more difficult for the observers to identify. Overall, the observers code small groups with enough accuracy to distinguish among classes as indicated by the high generalizability coefficients for this category. Observers have high agreement in instances when interactions do not occur. There is disagreement in observing particular types of interactions. kinds of interactions occur so infrequently that it is difficult to assess the agreement among the observers when observing in actual classroom situations. Similarly the observance of the use of most of the kinds of materials was so infrequent that it is impossible with the data collected to assess what is the agreement among observers except that they agreed highly that the materials were not used.



TABLE 11

Retraining Session: March 16 and 17, 1978

Pace

			Tota1		(Cate	gory Marg	inal	Overal1	Cohen's
Observe Pair	er (Curriculum and	Events	Sel:	[(ther	No Pace	Marginal	
Obs ^a	Fynert	Grade	Observed							
005	DAPCIC	orace		rsday,	March	16,	1978			· · · · · · · · · · · · · · · · · · ·
10	90	DMP 5	90		(82) ^C		.60 (3)	.80 (5)	.80	. 56
20	90	DMP 5	90		(82)	•	.00 (3)	1.00 (5)	.57	.64
30	80	DMP 5	90 - b		(/		, ,			
40	80	DMP 5	90	.88	(29)		.96 (49)	.50 (12)	.78	.76
10 \	90 \	WDRSD 2	66	.88	(8)		.90 (46)	.67 (12)	.82	.79
20	. 90	WDRSD 2	66	1.00	(8)		.26 (46)	.83 (12)	.93	.76
. 30	80	WDRSD 2	_	•		•			•	•
40	80	WDRSD 2	60	. 56	(5)		.89 (37)		.82	.88
10	90	DMP 2	0 4	.96	(70)		.43 (7)	.88 (7)	.75	.78
20	٠ '90	DMP 2	84	.96	(70)		.78 (7)	.88 (7)	.87	.66
30	.3: 80	DMP 2 '	-	1					•	
40	'' 80	DMP 2	78	. 85	(44)		.83 (30)	.25 (4)	.64	.69
	Mean		1	.90	-	,	.70	.76	.78	.65
	•.	•		Friday,	March	17,	1978		2. 	
10	90	DMP 5	90	١	(75)	-	1.00 (2)	.85 (13)	.94	.75 .
20	90.	DMP 5	90		(75)		.50 (2)	.92,(13)	.80	.83
30	,80	DMP 5	90 *	• .76			.82 (50)		.53	.73
440	80	DMP 5	90		(38)		.96 (50)	• •	.97	.83
10	90	WDRSD 2	66		(25)		.76 (33)		.81	.73
20	90	WDRSD 2	66		(25)		.73 (33)	•	.82	.68
30	80	WDRSD 2	60		(24)		1.00 (32)	•	.81	.82
40	. 80	WDRSD 2	60		(24)		1.00 (32)	(.81	.94
10	90	DMP 2	84		(35)		.86 (42)		.90	.71
20	90	·DMP 2	84 .		(35)		.83 (42)		. 83	.69
30	80	DMP 2	84		(62)		.63 (19)		.64	.62
40	80.	DMP 2	84	.90	(62)		.76 (19)	1.00 (3)	.89	.84
-	Mear	1		.87	·		.82	<u>/</u>	.81	.76

a Observers 10 and 20 observed at WDRSD schools.
Observers 30 and 40 observed at DMP schools.



b Observer 30 did not attend the first day of the retraining.

c Events coded by the expert.

Retraining Session: March 16 and 17, 1978

Grouping

						Category Mat	erial		Overall	Cohen 's
bserver Pair Obs ^a		Curriculum and Grade	Total Events Observed	Ind	Pair	Small Group	Large Group	No Group	Marginal	Карра К
	ستسدار الاشتاب				Thursday	March 16,			<u></u>	
10	90	DMP 5	90	.92(66) ^c	.53(17)	.40 (2)	· -d(0)	.80 (5)	.66	. 49
	90	DMP 5	90	.94(66)	.71(17)	.50 (2)	- (0)	.71 (5)	.72 `	. 47
20 30		DMP 5	_b	. 54(00)	• (1 (1)	(0)				
50	80 80	DMP 5	90	.88(28)	.50 (2)	- (0)	.94(48)	.50 (12)	.70	. 75
40			66	.86 (7)		(0)	.92(45)	.67 (12)	.78	.80
10	90	WDRSD 2	66	.57 (7)	.50 (2)	- (0) - (0)	.94(45)	.87 (12)	.71	.74
20	90	WDRSD 2		. 31 (1)	130 (2)	(3)	· • •	· ·	_	
30	80	WDRSD 2	-	.56 (5)	- (0)	.89 (37)	- (0)	1.00 (18)	.82	.88
40	80	WURSD 2	60	.88(57)	.64(11)	.00 (2)	.57 (7)	.88 (7)	.59	.66
10	90	DMP 2	84		.92(11)	.00 (2)	.43 (7)	.88 (7)	.63	. 65
20	90	DMP 2	84	.93(57)	.92(11)	400 (2)		, , ,		••
30	80	DMP 2		02//21	. 29' (2)	.33 (12)	.86(18)	.25 (4)	.53	. 56
40	80	DMP 2	78	.93(42)	. 27 (2)	133 (12)				
	Mean			. 1	.60	. 35	. 78	. 72	. 68	. 67
					Friday,	March 17,	1978		·	<u> </u>
10	90	DMP 5	90	.92(62)	.86 (7)	.75 (8)	· (0)	.85 (13)		. 68
20	90	DMP 5	90	.98(62)	.78 (7)	.88 (8)	.00 (0)	.92 (13)		.67
	90 80	יזאט 5 יואט	90	.74(31)	.62 (8)	.00 (2)	.87 (47)	.00 (2)	. 45	.72
30	80 80	DMP 5	90	.78(31)	.25 (8) ⁻	.00 (2)	.98 (47)	1.00 (2)	.60	.69
40		WORSD 2	66	.75(18)	.82 (11)	.50 (1)	.79 (28)	.89 (8)	.75	، 70
10	90		⁶⁶	.86(18)	.85 (11)	.25 (1)	.71 (28)	1.00 (8)	.73	.65
20	90	WDRSD 2	60	.84(21)	1.00 (3)	- (0)	.94 (32)	.30 (4)	.82	.89
30	80	WDRSD 2	60	.91(21)	1.00 (3)	~ (0)	1.00 (32)	.50 (4)	.85	.94
40	80	WDRSD 2		.92(33)	.42 (5)	.00 (0)	.69 (39)	1.00 (7)	. 60	.66
10	90	DMP 2	, 84 84	.92(33)	.83 (5)	.00 (0)	.87 (39)	.78 (7)	.69	.72
20	90	DMP 2		.97(33)	.92 (12)	1.00 (3)	.78 (18)	1.00 (3)	.92	.77
30	80	DMP 2	84	1.00(48)	.75 (12)	1.00 (3)	.86 (18)	1.00 (3)	.92	.74
40	. 80	DMP 2	84	1.00(40)	1,5 (-1)	1.00 (3)	• • •			
	Mear			.88	.76	.44	.77	.79	.74	.74

a Observers 10 and 20 observed at WDRSD schools. Observers 30 and 40 observed at DMP schools.



b Observer 30 did not attend first day of the retraining session.

c Events coded by the expert.

d No events were coded for this category by either the expert or the observer.

TABLE 13

Retraining Session: March 16 and 17, 1978
Paper/Pencil

		0 1 1	me to 1		Cate	egory Marginal		- Overall	Cohen's
server Pair		Curriculum and	Total Events	-	/pencil sed	Paper/pencil not used	0ther	Marginal	
ງຮ ^ລ	Expert	Grade	Observed		March 16				
			TUUI	_					
10	90	DMP 5	90.	.76	(82) ^c	.12 (3)	.80 (5)	.56	. 29
20	90	DMP 5	90 _b	1.00	(82)	.33 (3)	.71 (5)	.68	.66
30	80	DMP 5	-			-1 (-0)	50 (10)		5 0
40	80	DMP 5	90		(60)	.54 (18)	.50 (12)		.59
10	90	.WDRSD . 2	66		(10)	.96 (44)	.67 (12)		.78
·20	90	WDRSD 2	66	.80	(10)	.92 (44)	.83 (12)	.85	. 84
30	80	WDRSD 2			4.0.0	, , , , , , , ,	1 00 (10)	7.	76
40	03	WDRSD 2	60		(25)	.47 (17)	1.00 (18)		.76
10	90	DMP 2	84		(77) ²	- d(0)	.88 (7)		.93
20	90	DMP 2	84 ′	.99	(77)	_. - (0)	.88 (7)	.93	.93
30	- 80	DMP 2	-	• •		00 (07)	25 (4)	70	07
40	80	DMP 2	· 78	.98	(47)	.93 (27)	.25 (4)	.72	.87
,	Mear	1	, again ann ann an ann an an an an an an an an	.88		.61	.72	.76	.74
			·	riday,	March 17	, 1978			
10	90	DMP 5	90	.96	(77)	.00 (0)	.84 (13) .60	.72
20	90	DMP 5	, 90		(77)	.00 (0)	.92 (13		. 91
30	80	DMP 5	90		(76)	.33 (12)	.00 (2)	•	.23
40	80	DMP 5	90		(76)	.71 (12)	1.00 (2)	.88	.82
10	90	WDRSD 2	66		(41)	.52 (17)	.89 (8)	.66	.59 .
20	. 90	WDRSD 2	66		(41)	.94 (17)	1.00 (8)	.97	.80
30	. 80	WDRSD 2	. 60		(51)	1.00 (5)	.50 (4)	. 82	.86
40	80	WDRSD 2	60		(51)	.80 (5)	.50 (4)	.75	.78
10	90	DMP 2	84		(47)	.86 (30)	1.00 (7)	.92	.75
20	90	DMP 2	84		(47)	.83 (30)	.78 (7)	.85	.72
30	80	DMP 2	84		(66)	.83 (15)	1.00 (3)		.90
40	80	DMP 2	84		(66)	.87 (15)	1.00 (3)	.95	.93
	Man			.92	4	.64	78	.78	.75
	Mea	11				,			

a Observers 10 and 20 observed at WDRSD schools. Observers 30 and 40 observed at DMP schools.



b Observer 30 did not attend first day of the retraining session.

c Events coded by the expert.

d No events were coded for this category by either the expert or the observer.

TABLE 14

Retraining Session: March 16 and 17, 1978

Manipulative Material Category

Ob		Curriculum	Total	·	C	ategory	Margin	al ¹		Overall	Cohen	's
Observe Pair Obs ^a		and	Events Observed	Manipu Use	lative '	-	lative Used	Othe	er	Marginal	***	
008-	Expert	Grade			March							
10	90	DMP 5	90		(4) ^c		(81)	.80	(5)	.67	.55	,
20	90	DMP 5	90	.00	(4)	.98	(81)	.71		.56	.60	
30	80	DMP 5	b		• • •		\				•	
40	,80 08,	DMP 5	90	.41	(15)	.75	(63)	.50 (12)	•5 5	.52	
10	90	WDRSD 2	66		, ,		, ,					
20	90	WDRSD 2	. 66									
30	80	WDRSD 2	-									
40	80	WDRSD 2	60	.11	(9)	.86	(65)	.25	(4)	.40	.10	
10	90	DMP 2	84									•
20	90	DMP 2	84									٠.
30	80	DMP 2	-									
40	80	DMP 2	78		·	•						
*************************************	Mean		<u> </u>	.19		.88		.56		.54	, 44	
				Friday	March	17, 197	8		J	11		
10	90	DMP 5	90	.00		1.00		.85 (13)	.62	.82	
20	90	DMP 5	90		(-)		• • • •		,	•		
30	80	DMP 5	90	.48	(12)	.86	(76)	.00	(2)	.44	. 4.3	
40	80	DMP 5	90		(12)		(76)	1.00	(2)	.87	.72	
10	90	WDRSD 2	66									
20	- 90	WDRSD 2	66			`					•	
3 0	80	WDRSD 2	60	.98	(56)	.00	(0)	.50		. •49	.41	
40	80	WDRSD 2	60		(56)	.00		.50		.44	. 27	
10	90	DMP 2	84	.00	(0)	.99	(77)	1.00	(7)	.66	.49	
20	90	DMP 2	84									
30	80	DMP 2	84		(1)		(80)	1.00	- :	.66	.85	
40	80	DMP 2	* 84	1.00	(1)	1.00	(80)	1.00	(3)	1.00	1.00	
	Mear	1		.49		.72		.73		.65	.63	

a Observers 10 and 20 observed at WDRSD schools. Observers 30 and 40 observed at DMP schools.



b Observer 30 did not attend Thursday of the Retraining session.

c Eyents coded by the expert.

TABLE 15

Retraining Session: March 16 and 17, 1978

Game

		······································			C	ategor	y M	argi	nal		Overall	Cohen's
serve Pair		Curriculum	Total Events	Gam	9	(Same		Othe	ŗ	Marginal	Карра к
osa .	Expert	Grade	Observed Thu		March	16, 19	78					<u> </u>
								ڕ				
10	90	DMP 5	90					,				
20	90	DMP 5	90 _b				_					
30	80 ,	DMP 5	90	.00	(4) ^C		88 ((74)	.50	(12)	.46	.50
40	89 (DMP 5		~	· · /		,			•	· •	' . /
10	90	WDRSD 2	66. •			•			•			/
20	90	WDRSD 2	·66•			•			•			. /
30	80	WDRSD 2	- ,			-						/
40	80	WDRSD 2	· 60 84								•	/
10	90	DMP 2	84 84					1				/
20	90	DMP 2 DMP 2	-			•				•		/
30	80		- 78							•		/
40	80	DMP 2	/0									
	Mea	n .		.00			88		.50		.46	./50
,			1	riday	March	17, 1	.978	3				<i></i>
10	90	DMP 5	90	•	•						/	
20	90	DMP 5	9 0		•						/	
30	80	DMP 5	90								/	
40	80	DMP 5	90								/_	
10	90	WDRSD 2	66		-						f	
20	90	WDRSD 2	66 -	_					,		/	•
30	80	WDRSD 2	60			• •			·		/	
40	80	wdrsd 2	6 0 ·	•		• •				/75	50	11
10	90	DMP 2	84		(34)			(43)	1.00		.52	.11
20	90	DMP 2	. 84		(34)			(43)	.78		45	.13
30	80	DMP 2			(8)			(73)			.92	.91
40	80	DMP 2	\ 84	.75	(8)	•	97	(73)	1.00	(3)	.91	.89
	Mea			. 39			77		.94		.70	.51

a Observers 10 and 20 observed at WDRSD schools.
Observers 30 and 40 observed at DMP schools.



b Observer did not attend first day of the retraining session.

c Events coded by the expert.

TABLE 16

Retraining Session: March 16 and 17, 1978

Audio-Visual Aid

				Ca	tegory Margin	al	Overal1	Cohen's
serve Pair.		Curriculum and Grade	Total Events Observed	AV Aid Used	AV Aid Not Used	Other	Marginal	
os ^a	Expert	Grade	Thur	sday, March	16, 1978			
10	90	DMP 5	90					\
10 20	90	DMP 5	90		c			
.30,	80	DMP 5	b					
40	80	DMP 5	90					•
10	90	WDRSD 2	66	•				
20	90	WDRSD 2	66		•			
30	80	WDRSD 2	-		•			
40	80	WDRSD 2	60	•				ĺ
10	90	DMP 2	84		•			
20	90	DMP 2	√ 84					
30	80	DMP 2						
40	80	DMP 2	78					
	Mean							<u>,</u>
			F	riday, March	17, 1978			'e
10	· 90	DMP 5	90					
20	90	DMP 5	90				profession .	
	80	DMP 5	90					
30		2	00					
30 40	80	DMP 5	90					
40	80 90	DMP 5 WDRSD 2	90 66	c				0.0
40 10		WDRSD 2	66 66	.00 (0) ^c	.95 (58)	1.00 (8)	.65	.82
40	90		66 66 60		.95 (58)	1.00 (8)	.65	.82
40 10 20	90 90	WDRSD 2 WDRSD 2	66 66 60		.95 (58)	1.00 (8)	. 65	.82
40 10 20 30 40	90 90 80	WDRSD 2 WDRSD 2 WDRSD 2 WDRSD 2 DMP 2	66 66 60 60 84		.95 (58)	1.00 (8)	. 65	.82
40 10 20 30	90 90 80 80	WDRSD 2 WDRSD 2 WDRSD 2 WDRSD 2 DMP 2 DMP 2	66 60 60 84 84		.95 (58)	1.00 (8)	. 65 -	.82
40 10 20 30 40 10	90 90 80 80 90	WDRSD 2 WDRSD 2 WDRSD 2 WDRSD 2 DMP 2 DMP 2 DMP 2	66 60 60 84 84		.95 (58)	1.00 (8)	. 65	.82
40 10 20 30 40 10 20	90 90 80 80 90	WDRSD 2 WDRSD 2 WDRSD 2 WDRSD 2 DMP 2 DMP 2	66 60 60 84 84		.95 (58)	1.00 (8)	.65 -	.82

a Observers 10 and 20 observed at WDRSD schools.

Observers 30 and 40 observed at DMP schools.



b Observer did not attend first day of the retraining session.

c Events coded by the expert.

TABLE 17

Retraining Session: March 16 and 17, 1978

Printed Materials

			m = 4: = 1	··············	C	ategory	Margin	al		Overal1	Cohen	1 's
serve Pair	r (Curriculum and	Total Events	Mate	nted erials	Print Mater	ials	Oth	er	Marginal		
sa	Expert	Grade	Observed		sed	Not U			 			
			Thu	ırsday,	March	16, 1978	<u> </u>					-
ìÚ	90	DMP 5	90	1.00			(74)	.80		.93	. 78	
20	90	DMP 5	90.	.73	(11)	.99	(74)	.71	(5) .	.81	.74	
30	80	DMP 5	_b						4	4	7.0	
40	80	DMP 5	90	. 74	(14)	.98	(64)	.50	(12)	. 74	.72	ţ
10	90	WDRSD 2	66									
20	90	WDRSD 2	66									
30	80	WDRSD 2	-						(10)	· ,	7.0	
40	80	WDRSD 2	60	. 47	(17)	.74	(25)	1.00	(TR)	.74	.76	
10	90	DMP 2	84									
20	90	DMP 2	84	•								
30	80	DMP 2	-									
40	80	DMP 2	78	.88	(7)	.97	(67)	. 25	(4)	.70	.67	
	Mean	1		.76		. 93		.65		.78	.73	
			j V	Friday,	March	17, 197	8					
10	90	DMP 5	90	.10	(1)	.91	(76)	.85	(13)	.62	.57	
20	90	DMP 5	90	.00	(1)	.97	(76)	.92	(13)	.63	.91	
30	80	DMP 5	90	.93	(14)	.99	(74)	00	(2)	.64	.81	
40	80	DMP 5	90	.93	(14)	.99	(75)	1.00	(2)	.97	.89	
10	90	WDRSD 2	66	.71	(14)	.94	(44)	. 89	(8)	.85	.84	
20	90	WDRSD 2	66	.00	(14)	.76	(44)	1.00	(8)	• 59	.47	
3()	80	WDRSD 2	60									
40	80	WDRSD 2	60				•					
10	90	DMP 2	84		(1)		(76)	1.00		.66	. 49	
20	90	DMP 2	84	.00	(1)	.99	(76)	.78	(7)	.59	. 54	
30	80	DMP 2	84									
40	80	DMP 2	84									
	Mear			.33		.94		.80		.69	.69	

a. Observers 10 and 20 observed at WDRSD schools. Observers 30 and 40 observed at DMP schools.



b Observer did not attend first day of the retraining session.

c Events coded by the expert.

Retraining Session: March 16 and 17, 1978

Other Materials Category

	 		m 1		(Overal1	Cohen's					
serve Pair		Curriculum	Total Events	Other Materials Used		Other Materials Not Used		Other		Marginal		
)s ^a	Expert	Grade	Observed Thu			16, 197						
10	00	DMP 5	90		(12)°	•	(73)	80	(5)	.90	.93	
10	90	DMP 5	90	.92	(12)	.96	(73)	.80 .71	(5)	.86	.84	
20	90	DMP 5	_b		(/		(, , , ,	·	• • •			
30	80 80	DMP 5	90									
40 10	90	WDRSD 2	66	•								
20	90	WDRSD 2	66			•						
30	80	WDRSD 2	_									
40	80	WDRSD 2	60									
10	90	DMP 2	84			,						
20	90	DMP 2	84				•					
30	80	DMP 2	_									
40	80	DMP 2	78	1.00	(2)	.96	(72)	.25	(4)	. 74	.65	
40		DIE 2										
	Mean	1	,	.95		.73		. 59	•	.83	.81	
,				Friday	, March	17, 197	8				4	
10	90	DMP 5	90	.33	(6)	.92	(71)	.85	(13)	.70	.78	
20	90	DMP 5	90	.00	(6)		(71)	.92		.61	.74	
30	80	DMP 5	90	·	•							
40	80	DMP 5	90		ř.					•		
10	90	WDRSD 2	66	1.00	(1)	.98	(57)	. 89	(8)	96	. 82	
20	90	WDRSD 2	66	.00	(1)	• 98	(57)	1.00	(8)	.66	.93	
30	80	WDRSD 2	60									
40	80	WDRSD 2	60 .				•					
10	90	DMP 2	84	.50	(1)	.99	(76)	1.00	(7)	.83	.55	
20	90	DMP 2	84	1.00	(1)		(76)	.78	(7)		.51	
· 30	80	DMP 2	84	.00			(80)	1.00	(3)		.85	
40	80	DMP 2	84	1.00	(1)		(80)	1:00			1.00	
	Mea	i.	<u> </u>	.48		.97	,	.93		.79	.77	

a Observers 10 and 20 observed at WDRSD schools.
Observers 30 and 40 observed at DMP schools.

c Events coded by the expert.



b Observer did not attend first day of the retraining session.

Retraining Session: March 16 and 17, 1978

Learner Moves

						Category Material					Overall	Cohen
server Pair		Curriculum and	Total Events Observed	Written	Oral	Covert	Interim	Waiting	Off- Task	No Learner Move	Marginal	Карра
.sa	ilyr yr	Cra le	Char i ven	· ·	Thurs	day, March	16, 19/8			<u> </u>		
	<u> </u>					,79(15)	. 8ត(15)	.33 (3)	.88(15)	. สด (5)	.76	.53
)C	9)	LMC 5	90	.90(29)c	.75(8)	.88(15)	.83(15)	1.00 (3)	.73(15)	.71 (5)	.87	. 57
?0	93	19101 5	⁹⁰ _ს	.90(29)	1.00(8)	100(13)	103(13)	1.00 (3)	112(4)			
30	(۲	1 5		0//15	.50(2)	.90(30)	.75 (3)	.68 (15)	.85(13)	.50 (12)	.73	. 65
40 ,	85	9%: 5	90	.94(15)	.67(6)	.97(38)	.00 (0)	.00 (0)	.83 (n)	.67 (12)	. 59	. 59
10	c_{ij}	W. J. 5D 2		1.00 (4)		1.00(38)	.00 (0)	.00 (0)	.86 (6)	.83 (12)	.63	.68
20	90	1035 2	6ú	.75 (4)	1.00(6)	1.00(30)	.00 (0)	100 (0)	, , ,			
30	と 0	KimSD 2	-			.94(17)	.60 (3)	. នេ (7)	-4(0)	1.00 (18)	.84	. 19
40	80	W. J. J. 2	60	1.00(10)	.60(5)	•	1,00 (3)	.73 (8)	. 50 (15)	,8s (7)	.82	.45
10	α	171: 2	84	.76(25)	. 80(5)	.78(21)	.75 (3)	.89 (8)	.93(15)	.88 (7)	.85	.62
20	90	L::: 2	84	1.00(25)	.71(5)	.81(21)	113 (1)	. 105 (11)				
30	80	Diff 2	-		22//	(1()))	.83 (6)	.70 (7)	.50 (6)	.50 (4)	.64	.40
40	દઉ	DMP 2	78	1.00(13)	, 33(4)	.63(38)	.03 (0)			 	7/	. 59
	Mera.	1		.92	.67	.86	.63	.58	.80	.75	.74	
					Tric	lay, March	17, 1978					
						.96(22)	1.00 (8)	.00 (0)	,90(27)	.85 (13)	.81	, óó
1)	90	DMP 5	90	.95(19)	1.00(1)		- 1,00 (8)	(0) 00.	.96(27)		.74	.63
20	90	DMP 5	90	.63(19)	1.00(1)	.54(22)	,50 (2)	1.00 (17)	.90(10)		.69	. 54
30	63	1:112 5	90	,79(22)	.86(6)	.81(31)	,50 (2)	.59 (17)	.80(10)		.81	. 59
40	C3	1/11/2 5	90	.96(22)	1.00(6)	.84(31) 1.00(25)	.17 (6)	.60 (5)	.80(10)	.80 (8)	.65	. 48
10	90	WWRSD 2	66	.82 (9)	.38(3)	.76(25)	(6)	.71 (5)	.70(10)	1.60 (8)	.74	. 59
20	90	Williab 2	ζó	.64 (9)	.50(3)	.52(23)	(0) (0)	.44 (8)	.56 (9)	.50 (4)	. 49	.50
30	:0	W0480 2	60	.74(14)	.67(2)	. 88(23)	(0) 00.	(8) (8)	.22 (9)	.50 (4)	.62	.62
40	6.0	WSD 2	60	.88(14)	1.00(2)		.86 (6)	.52 (25)	.50 (7)	1.00 (7)	.73	. 48
10	90	LHP 2	84	177(13)	.67(2)	.80(24)	.83 (6)	.76 (75)	.64 (7)	.78 (7)	.68	,52
20	90	DMP 2	84	.54(13)	.33(2)	,89(24)	.44 (9)	.67 (4)	.81(16)	1.00 (3)	.82	. 56
50	60	LHP 2	84	.94(16)	1.00(2)	.87(34) .85(34)	.78 (9)	.75 (4)	.89(16	1.00 (3)	,78	.ól
40	60	DMP 2	84	.70(16)	.50(2)	103(34)	170 (2)	,,,,				
		n		. 78	.74	. 81	. 58	58	. 12	.78	.71	. 5ს

- a Observers 10 and 20 observed at WDRSD schools. Observers 30 and 40 observed at DMP schools.
 - Observer 30 did not attend first day of the retraining session.
- c Events coded by the expert.
- d No events were coded for this category by either the expert or the observer.

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Retraining Session: March 16 and 17, 1978

Interactions

		2	Total		Category Marg	inal	- Overall	Cohen's
Observe	r (Curriculum and	Total Events	Target to	Teacher to	None of	Marginal	
Pai.r	T 4		Obscrved	Student	Group	the above	~	
Obsa	Expert	Grade	Thu	ırsday, Marc				
10	90	DMP 5	90	.57 (7) ^c	.00 (0)	•95 (79)	. 57	.40
20	90	DMP 5	90	.50 (7)	.00 (0)	.98 (79)	.47	.46
30	80	DMP 5	_b					
40	08	DMP 5	90	.50 (2)	.81 (13)	.93 (70)	. 54	.54
10	90	WDRSD 2	• 66	.50 (2)	.97 (28)	.91 (32)	· .58	. 54
20	90	WDRSD 2	66	.40 (2)	.71 (28)	.89 (32)	.46	.40
30	80	WDRSD 2	•	, ,				
40	80	WDRSD 2	60	1.00 (1)	.57 (8)	.86 (43)	. 70	.58
10	. 90	DMP 2	84	.60 (5)	1.00 (2)	.97 (73)	.60	.46
20	90	DMP 2	84	.83 (5)	.50 (2)	.96 (73)	.38	.54
30	80	DMP 2	_					
40	, 80	DMP 2	78	.18 (2)	.75 (9)	.82 (61)	. 57	.30
	Mean		-	.56	.59	.92	.54	. 47
<u></u>	+			Friday, Marc	ch 17, 1978			
10	90	DMP 5	90	.00 (1)	- ^d (0)	.97 (86)	.19	01
20	90	DMP 5	90	.00 (1)	- ´ (0)	.98 (86)	.30	. 32
30	80	DMP 5	90	.12 (1)	.75 (12)	.92 (72)	· .38	. 36
40	80	DMP 5	90	.25 (1)	.54 (12)	.78 (72)	.50	.36
10	90	WDRSD 2	66	.43 (3)	.80 (12)	.81 (48)	. 38	. 42
20	90	WDRSD 2	66	.50 (3)	.86 (12)	.94 (48)	.38	.54
30	80	WDRSD 2	60	.50 (2)	.30 (10)	.90 (45)	.74	.45
40	80	WDRSD 2	60	1.00 (2)	.90 (10)	.98 (45)	.6 5	.54
10	90	UMP/2	84	.00 (0)	.80 (4)	.99 (75)	47	.49
20	90	DMP 2	84	.00 (0)	.75 (4)	.99 (75)	.42	. 44
30	80	DMP 2	84	.50 (2)	1.00 (9)	.97 (68)	. 35	.32
40	80	DMP 2	84	1.00 (2)	• •	1.00 (68)	.54	.42
•	Mea	n ,		.36	77	.94	. 44	.39

a Observers 10 and 20 observed at WDRSD schools.
Observers 30 and 40 observed at DMP schools.

d No events were coded for this category by either the expert or the observer.



b Observer 30 did not attend first day of retraining session.

c Events coded by the expert.

Summary of Means of the Category Marginal for Each Day of the WDRSD and DMP Training and Retraining Session

Observation Category	Train	ning	Retraining			
	Thursday	Friday	Thursday	Friday		
	,					
Self Paced	.94	.80	.90	.87		
Other Paced	.85	.83	.70	.82		
Individual	.84	.82	.83	.88		
Pair	•64	.53	.60	.76		
Small Group	.70	. 40	.35	.44		
Large Group	.84	.66	.78	.77		
Paper/pencil	.94	.80	.88	.77 .92		
Manipulatives	.75	.72	.19	.49		
Games	_	. 24	.00	.39		
Audio Visual	_	.00	-	.00		
Printed Material	. 36	. 26	.76	.33		
Other Material	<u>-</u>		.95	.48		
Engaged-Written	.78	.65	.92	.78		
Engaged-Oral	. 39	.35	.67	.74		
Engaged-Covert	.82	.83	.86	.81		
Non-engaged Interim	.76	.46	.63			
Non-engaged Waiting	.49	.84	.58	.58 .58 /		
Non-engaged Off-task	.72	.73	.80	.72		
Target to Student	.67	.61	.56			
Teacher to Group	.77	45	.59	.36 .77		



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Summary of Means of the Cohen's Kappa for Sets of Categories By Day for the WDRSD and DMP Training and Retraining Sessions

Observation Category	Train	ning	Retraining			
Set	Thursday	Friday	Thursday	Friday		
•						
			•			
Pacing	.76	.66	.65	. 76		
Grouping	.74	,64	.67	.74		
Paper/pencil	.70	.65	.74	.75		
Manipulatives	.68	.62	. 44	.63		
Game	•	• 54	• 50	.51		
Audio Visual	-	.83	₩	.82		
Printed Material	• 59	•57	.73	.69		
Other Material	-	-	.81	.77 🚜		
Learner Moves	.51	.52	. 59	.56		
Interactions	.51	.38	.47	. 39		



Summary of Generalizability Coefficients For Observer by Class by Day for the WDRSD and DMP Retraining Session

lf Paced her Paced dividual	Observer Group					
	10 x 20 x 90	40 x 80				
	<i>*</i>	 «,				
General Content	.00	.96				
Self Paced	1.00	1.00				
Other Paced	.99	.99				
Individual	1.00	.99				
Pair	.34	. 74				
	.88	. 9 8				
	.98	1.00				
-	.99	.96				
	.94	.81				
- -	.12	.00				
<u> </u>	.95	.60				
Total Engagement	.46	.86				
Non-engaged Interim	· .98	.63				
Non-engaged Waiting	.96	.99				
Non-engaged Off Task	.94	.76				
Total Non-engagement	.98	.96				

On-Site Visits

The summary of the agreement coefficients from the on-site visits to each of the four schools are given in Tables 24 through 27. Listed for each category where at least one event was coded by an observer is the marginal agreement. Then for the each set of categories, the category marginal agreements and Cohen's K are listed. The contingency tables showing the frequencies for each category for the on-site visits are in Appendix C.

On-site visits were made to each school by one of the Phase IV staff members as soon as possible after the training session. The purpose of these visits was to check on the observer's facility in using the observation system and to discuss specific questions that may have arisen after the observer had done some observations at his or her school. first on-site visit was considered as a part of the training procedures. A second on-site visit was made to three of the schools after the retraining session. This visit was made to check on the observer agreement after the observer was familiar with the system and had done several observations. A second on-site visit was not made at School 440 because observer 40 had always shown a high degree of facility in using the system and it was difficult to arrange a time for one of the experts to visit the school. For each visit, observations were generally made at Sometimes this was impossible and only one grade both Grades 2 and 5. level was observed. The retraining session was during week 9. The first tests were administered during week 1 so that the first observations



were done during week 2.—Thus on-site visits during weeks 2 through 8 were done before the retraining sessions. Visits made during weeks 10 through 16 were made after the retraining session.

School 452 (Observer 10). For the on-site visit during week 5, the marginal agreements for General Content and pacing are high, generally above .80. The coefficients for the grouping are reasonably high except for pair and small group which both occurred very infrequently. The only material observed being used was paper/pencil ...h. ch was coded with agreement for grade 5 (.96) but with lower agreement for grade 2 (.60). The high category coefficients for paper and pencil materials at grade 2 indicate that there was high agreement when paper/pencil materials were not in use. There was some disagreement on the learner move categories indicating that the observer still had not gained adequate facility in distinguishing among the categories. There was relatively high agreement in coding when students were engaged (.95 and .74) and non-engaged (.87 and .73). For grade 2 the agreements for the teacher to group and for no interactions are high. However, for grade 5 these are much lower indicating the observer still lacked some facility in coding interactions consistently.

The category Cohen's K for grade 2 for week 5 are all relatively high (above .73). This indicates that even though there was low agreement on some of the individual categories within a set (e.g. pair, small group, and engaged-oral) these did not occur very frequently and that the observers agreed in coding many of the events. The Cohen's K's for grade 5 were

Observer Agreement Coefficients for On-Site Visits to WDRSD School 452
Observers 10 and 90

			Grade 2	,			Grade 5				Grade 2		
		We	eek 5 Day	3		· · V	leek 5 Da	y 3		We	ek 15 Day	5.	
	Categories	(Tota	al Events	72)		(Tot	al Events	66)	((Tota	1 Events	72)	
	Categories	Marginal Agreement	Category Agreement	Cohen's Kappa k	Margi	nal ment	Category Agreement	Cohen's Kappa K	Margir Agreen		Category Agreement	Cohen's Kappa K	•
	General Content Self Paced	.86 (18) ^a .86 (6)	.80 .88	.90 .83	.75 1.00	(4) (14)	.75 .91	.85 .5		(J.4)	.89 .94	.98 .91	
	Other Paced Individual Pair	.87 (31) 1.00 (6) .50 (2)	.68	.84	.98 .77 .00	(48) (10) (0)	.62	.68	.62 .90	(31) (8) (10)	.79	.77	
	Small Group Large Group Paper/pencil	.00 (1) .96 (28) .60 (10)	.83	.86	.94 .96	(52) (47)	.88	.93	.95	(6) (21) (24)	.97	.98	
	Manipulatives Games Audio-Visual	- -			-				- · ·				,
<u>.</u>	Printed Materials Other Materials	_ '	50	70	-	(10)	.66	.740	.00 - .88	(2) (8)	.65	.94	,
1.	Engaged-written Engaged-oral Engaged-covert	.17 (6) .00 (0) .89 (16)	.50	.70		(19)		• • • • • • • • • • • • • • • • • • • •	. 1.00 .96	(3) (24)	,,,	'	• ,
	Total Engagement Non-engaged interim Non-engaged waiting	.95 (22) .50 (3) .00 (5)	•	•	.7 <u>4</u> 1.00 .48				.94 1.00 .40	(35) (2) (5)		•	~ *.
7.4	Non-engaged off-task Total Non-engagement	1.00 (7) .87 (15)		70	.82 .73	(9) (33)	.30	. 36	.38 .83 .00	(3) (10) (0)	.38	.61	•
	Target to student Teacher to group No Interactions	.00 (0) .86 (7) .98 (59)	. 44	.73	.00 .38 .67	(1) (29) <u>(31</u>			.88	(14) (52)			72

a Events coded by the expert.



generally lower, particularly for pacing (.56), grouping (.68), learner moves (.40) and for interactions (.36). Thus the observer at this point had not yet gained the expected facility in using the system consistently. The coding of these two classes were discussed in detail during the annesite visit.

The agreement coefficients were generally higher in coding grade 2 during week 15. Only individual, small group, non-engaged waiting and non-engaged off-task have low marginal coefficients. The Cohen's k's for four of the sets of categories are extremely high (above .90) and for the other three sets of categories are moderately high (above .60). Thus the ability of Observer 10 had improved after using the system and had reached an-acceptable level in coding most of the categories.

School 504 (Observer 20). The marginal agreement coefficients for Observer 20 (Table 25) were high except for the learner move categories. Observer 20 had difficulty in distinguishing between engaged-covert and non-engaged waiting. This resulted in a low agreement coefficient for each of the categories and for total engagement and total non-engagement. The Cohen's κ also reflect a high facility in coding all the sets of categories except for learner moves ($\kappa = .47$).

Observer 20 had maintained her ability in coding the categories other than learner moves and also had improved greatly in coding learner moves by the time of the on-site visit after the retraining session, week 15.

The marginal agreement coefficients, with the exception of a few with low frequencies, are high for both grade levels. The Cohen's K's are all high



Observer Agreement Coefficients for On. Site Visits to WDRSD School 504
Observers 20 and 90

						•					
-						Grade		<u> </u>	Grade 5		
	•		Grade 2					We	ek 15. Day	2	
•	•	We	ek 4 Day	1		Week 15			1 Events 1		
٦.	a-rrios	(Tota	1 Events	54)		tal Event					
•	Categories	Marginal Agreement		Cohon !	Marginal Agreement	Category Agreemen	Cohen's t Kappa K	Marginal Agreement	Category Agreement	Kappa K	
	General Content Self Paced Other Paced Individual Pair Small Group Large Group Paper/pencil	.88 (8) ^a .74 (14) .88 (32) .89 (16) .00 (0)93 (30) .94 (29)	.74 .83 .67	.93 .81 .81	1.00 (10 .92 (11 .97 (33 .90 (9) 1.00 .00 (1 1.00 (32) 1.00) .96 ⁴) .78	1.00	1.00 (22) .95 (88) .00 (5) .99 (82) .91 (10) 1.00 (1) - .89 (42)	.97	1.00 .92 :96	Г
	Manipulatives Games Audio-Visual Printed Materials Other Materials Engaged-written Engaged-oral Engaged-covert	.80 (8) 1.00 (1) .59 (13)		.47	1.00 (4 1.00 (4 1.00 (2 .50 (2 1.00 (1)	1.00 () .77 () (8) (2)	1.00 1.00 .70	.87 (71) .00 (1) .68 (15) .00 (0) .85 (52) .97 (67)	.66 .71 -	.85 .98 .84	
	Total Engagement Non-engaged interim Non-engaged waiting Non-engaged off-task Total Non-engagement Target to student Teacher to group No Interactions	.50 (1) .50 (22) 1.00 (1) .58 (24) .00 (0) .80 (8) .96 (45)	.74	.93	.57 (7 .80 (8 .88 (7 1.00 (2 1.00 (1 .87 (1 .97 (3	3) 7) 2) 1) .71 3)	.65	.91 (10) - .81 (16) .92 (26) .00 (0) - 1.00 (135)	. 20		

⁷⁴

a Events coded by the expert.

(above .70) except for interactions where there was some disagreement as to what the interaction was on a very small number of events. There was extremely high agreement when there were no interactions. Thus Observer 20 had gained a very high level of facility in using the system.

School 433 (Observer 30). Observer 30 was having more difficulty with the observation system (Table 26) by week 4 than did the other three observers. There is some question about the meaning of these coefficients for this on-site visit since early in the morning the observer's apartment was destroyed by fire which caused some distraction to the observer. The observer did have a misconception of individual grouping. Even though students were working by themselves on worksheets, the observer coded this as a large group activity since all the students were doing the same worksheet. This misinterpretation of grouping was discussed during the visit. By week 16 the observer had gained a high level of facility in using the system as indicated by the high marginal coefficients for most categories. Those categories with low coefficients were only those coded very infrequently by the expert observer. The Cohen's K for the materials categories of games, printed materials and other do not have much meaning since these categories were observed so infrequently.

School 440 (Observer 40). With the exception of learner moves, the agreement coefficients for Observer 40 are extremely high (Table 27) for the on-site visit during week 4. Observer 40 had some difficulty in distinguishing among engaged-covert and the other learner moves. She was not



Observer Agreement Coefficients for On-site Visits to DMP School 433 Observers 30 and 80

	.•	Grade 2	•	•	Grade 5	
Categories		Week 4 Da Events 54		(Total	eek 16 Day Events 96)	
	Marginal	Category	Cohen's	Marginal	Category	Cohen's
	Agreement	Agreement	: Карра к	Agreement	Agreement	Карра К
	a			44	· 	4.0
General Content	.67 (2) a	.82	. 79	.60 (5)	. 37	.48
Self Paced	.04 (1)	. 42	.15	1.00 (21)	.86	.87
Other Paced	.55 (51)	•	_	.97 (70)		0.0
Individual	.04 (1)	.42	. 15	.90 (19)	.80	.88
Pair '	- (0)	1		.50 (2)		•
Small Group	- (0)			1.00 (2)		
Large Group	.55 (51)			.99 (68)		2.2
Paper/pencil	.98 (52)	.82	. 79	1.00 (41)	.85	.90
Manipulatives	-			-		40
Games	-			.67 (2)	.75	. 68
Audio Visual	_			.00	52	. 42
Printed Materials				-		4.5
Other Materials	-	4		.00 (1)	.53	. 42
Engaged-Written	.94 (17)	.60	. 54	.75 (12)	.76	.65
Engaged-Oral	.50 (2)	•		.25 (1)		
Engaged-Covert	.57 (21)			·.94 (47)	•	
Total Engagement	.78 (40)			.94 (60)	•	
Non-engaged Interim	.67 (3)			1.00 (5)		
Non-engaged Waiting	.61 (8)			1.00 (18)		
Non-engaged Off Task	.20 (1)			.75 (8)		
Total Non-engagement	.60 (12)			.94 (31)	•	
Target to Student	_	.65	. 46	.40 (2)	. 44	.60
Teacher to Group	.58 (12)	•		.82 (27)		•
No Interactions	.95 (40)			.97 (66)		

a Events coded by the expert.



b No events coded by either the observer or the expert.

Observer Agreement Coefficients on Observation Categories for On-Site Visit for DMP School 440 Observers 40 and 80

			
\		Grade 5	
Categories		Week 4 Day 4 otal Events 96)
· ·	Marginal	Category	Cohen's
	Agreement	Marginal	Карра к
	\	7	
	, , , , , , , , , , , , , , , , , , ,		
	``		
General Content	$1.00 (9)^a$	1.00	1.00
Self Paced .	\.99.(77)	. 96	.97
Other Paced	.91 (10)		•
Individual	.99 (77)	· .96	.97
Pair		•	
Small Group	<u>-</u> *		
Large Group	.91 (10)		
Paper/Pencil	.95 (73)	.89	•77 ·
Manipulatives	_		
Games ,	-		
Audio Visual	· -		
Printed Materials	.94 (17)	.98	.98
Other Materials	1.00 (1)	1.00	1.00
Engaged-Written	.79 (34)	• 56	.66
Engaged-Oral	.00 (0)	at .	•
Engaged-Covert	.38 (26)		, ,
Total Engagement	.92 (60)		
Non-engaged Interim	.50 (2)		
Non-engaged Waiting	.46 (6)		
Non-engaged Off-task	.79 (19)		
Total Non-engagement	.84 (27)		·
Target to Student	.00 (2)	. 49	.63
Teacher to Group	-		
No interactions	.96 (84)	•	•

a Events coded by the expert.



' as specific on whether or not the student was actually writing or only was reading the problem with a pencil in hand. This caused some disagreement on these specific categories, however agreement on total engagement (.92) and total non-engagement (.84) was high. The Cohen's κ's for the sets of categories were extremely high for general content (1.00), pacing (.97), grouping (.97), printed materials (.98) and other materials (1.00). The Cohen's κ's were moderately high for the other categories paper/pencil (.77), learner moves (.66), and interactions (.63).

On-site visits Summary. The results of the on-site visits indicate that the observers still had difficulty in coding some categories after the training session. The coding of learner moves seems to require more time than was given in the training session for observers to gain facility in distinguishing among the categories. The observers could, however, generally distinguish whether or not students were engaged. All of the observers had reached a high degree of facility in using the system by the time of the second period, after the retraining session.

Conclusions

The observation categories that had high interobserver agreements for the training session, retraining sessions, and on-site visits are:

Self-paced

Other-paced

Individual

Large Group

Paper/pencil -

Engaged-written

Engaged-covert

Non-engaged off-task

For the other categories where there were lower interobserver agreements, most of these categories occurred very infrequently. Interobserver agreement was relatively high in coding pairs and small groups of students that were formally designated by the teacher. Disagreement occurred when there were occasional pairs and small groups formed to have a question answered and only existed for a short period of time. Thus pair and small group time should be interpreted as time spent in these groupings as directed by the teacher and for a measurable amount of time of the class period.

Material categories other than paper/pencil occurred very infrequently. There was high agreement that these materials were not used, but the lower agreement on when these materials were used reflects the



low frequencies of occurrence of the different types of materials in the classes observed. The most important agreement on the material category is the high agreement that the materials were not used.

Three learner moves (engaged-oral, non-engaged interim and non-engaged waiting) had low interobserver agreements. Students were rarely engaged in talking. Thus there were very few instances of engaged-oral for the observers to reach agreement. However, there was improvement on this category from the training session to the retraining session. Non-engaged interim is a more nebulous category which the low interobserver agreements on this category reflect. Non-engaged waiting also appears to be less well defined as reflected by the low interobserver agreements. However, when the three engaged categories and the three non-engaged cagegories are combined into two groups, total engagement and total non-engagement, the agreement is generally high as reflected by the generalizability coefficients for the retraining session.



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APPENDIX A

Contingency Tables for each set of Observation Categories for Pairs of Observers for the WDRSD and DMP Training Session (January 10-13 1978)

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Appendix A

Included in this appendix are:

Tables	28 - 47	General Content
Tables	48 - 67	Pace ?
Tables	68 - 87	Grouping
Tables	88 - 107	Paper/Pencil
Tables	108 - 118	Manipulatives
Tables	119 - 122	Games
Tables	123 - 124	_ Audio Visual Aids
Tables	125 - 136	Printed Materials
Tables	137 - 156	Learner Moves
Tables	157 - 176	Interactions

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Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on General Content
Observer 10 Expert 90
School 801 Grade 2
Week 0 Day 4
WDRSD

.		Cet		chos	en by	066	Prver	10			Manalani	Light's Extension
Category chosen by Expert 90	Cot.	'1	. 5	3	٠.	5	6	. 7	Marginal Totals	Nomine! Agreement	Mergina;	of Kappe
	•••	•••••	****	****	****	**.**	****	*****	******		-	· ·
Wolt	1 +	0	0	0	o	0	` 0	0	• •			
Transition	5 .	0	0	0	0	0	0	• 0	• 0	,		
Management ~ .	3 +	. 0	0	0	0	0	Ō	0	. 0	 -		
Break	4 +	0,	0	0	0	0	. 0	0	. 0	,		
Nonacademic	5 +	0	0	0	0	0	0	0	• 0	,		
Other Academic	6 +	0	0	0	0	0	0	0	• 0			- ###### **
None of the Above	7 +	0 ,	0	0	oʻ	þ	. 0	54.	+ 54	1.000	1.000	
•	•	••••	•••••	****	****	****	• • • • •	*****	*	· .		
Merginal T	òtels +	0	. 0		0	0	0	54	+ , 54		•	
,	• • • • • • • • • • • • • • • • • • •	****		****	****	++++	••••	*****	· • • • • • • • • • • • • • • • • • • •	•		ņ

category Merginal Agreements 1.000

Cobenia Kennel ----

Table 29

Reliability on General Content Observer 20 Expert 90 School 801 Grede 2 Week 0 Day 4 WDRSD

	cat,									Nominel	Marginei	Light's Extension
Category chosen by Expert 90	GAT.	1	2	3	4	5	6	7 📏	Totels	Agreement	Agreement	
	•••	****	****	****	****	*****	****	*****	*******	•		
walt	1 •	0	0	. 0	0	0	0	0		, ====#	0.000	
Transition	2 +	0	0	0	0	0	0	0 -	• 0	•		
Fanagement	• 3 • ∶	0	0	0	0	0	0	0	• 0	•	0.000	
Brook	*	0	. 0	٥,	0	0	0	0	• 0	• • •====	0.000	
Nonecedemic	5 +	ø	0	0		, o	0.	. 0	• 0	• • • • • • • • • • • • • • • • • • •	*****	
Other Academic	. 6 +	0	0.	0	0	0	0	0	• 0	• • ••••	,	
Some of the Above	7 +	1	0	1	1	0	0	51'	÷ 54	• • • 94 <u>4</u>	,944	0,000
	•	*****	****	****	***	•••	****	*****	******	•		/-
, Marginal	Ţotels +	1	0	1	1	0	0	51/	• 5 <u>4</u>	• •		
	* * *	****	• • • • •	****	****	••••	****	*****	••••	•		

Cetegory Marginal Agreements .236

Cohenia Kappai 0.000

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Table 30

Reliability on General Content Observer 30 Expert 80 School 801 Grade 2 Week 0 Day 4 WDRSD

Cetegory chosen by Expert 80	Cat.	Cat 1	2	chos	en by	0bs6	6	30	Marginal Totals	Nominal Agreement	Merginel Agreement	Light's Extension of Kappa
Walt	1 •	5	0	0	0	0	0	1	• 3	,667	.667	.655
Transition	2 +	0	4	0	0	. '	0	2	• 6	,667	.667	,643
Panagement	3 +	0	0	1 1	0	0	0	1 .	2	•500	.500	,492
Break	• 4 •	0	0	0	0 -	0	0	, 0	• 0		0.000	. ap go as 60 60
Nonecademic	5 +	0	. 0	0	0	Ģ	. 0	. 0	• 0	, 		
Other Acedemic	6 +	`σ	, 0	0	0	0	0	0	• 0		4750P	****
None of the Above	7 •	0 ,	0	0	1.	0	0	48	49	. 980	,942	,847
,	•	•••••	****	• • • • • •	****	****	• • • • •	• • • • •				
Marginal To	tels :	2	4	1	1	0	0	52	60			
	•		****	• • • • • •	****	****	• • • • •	• • • • • •	•••••	•		

Category Marginal Agreement: .55%
Cohen's Kappa: .706

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Table 31

Reliability on General Content Observer 40 Expert 80 School 801 Grade 2 Week 0 Day 4

fotograph charge		Cet	egory	chos	en by	068	Drver	40 1	Marginal	Nominel	Marginel	Light's Extension
Catagory chosen by Expert 80	Cat,	1	5	3	4	5	6	7	Totals	Agreement	Agreement	of Kappa
. •		****	****	****	****	****	• • • • •	*****	*****			
welt	1 *	2	0	0	Q	, 0	0	. 1	• 3	.667	.667	,655
Transition	5 +	0	6	0	0	0	0	0	16	1.000	1.000	1,000
Hanagement	3 +	0	0	0	0	0	0	2		0.000	0.000	0.000
Preek	*	0	0	0	0	0	0	0		· (a) (a) (b) (c) (c)	0.000	*****
Nonacedemic	* 5 *	0	0	0	0	0	, 0	0	: 10:			
Other Academic	• • •	0	0	0	0	0	0	0	+ 0 +			·###
None of the Above	7 •	0	0	0	1	0	0	48	49	.980	.961	.864
	** *	****	****	****	****	****	• • • • •	• • • • • •	•••••••			
Herginal T	otals +	2	6	0	1	0	0	51	60			·
	•••	****	****	****	****	++++	• • • • •		******	ı		

Category Margina; Agreement: .521

Cohen's Keppel .773



Table 32

Reliability on General Content
Observer 40 Expert 80
School 801 Grade 2
Week 0 Day 4
DMP

						•			!	•		
	Cat.	Cat	egory	chos	en by	0bs	rver	40	Marginal	Nominel	Marginal	Light's Extension
Cetegory chosen by Expert 80	#	1	2	3	4	5	6	7	Totals	Agreement	Agreement	of Keppa
	**	• • • • • •	****	*****	****	****	• • • • •	• • • • • •	******	•		
halt	1 +	3	2	0	0	0	0	0	5	•600	1.000	.575
Transition	2 +	1	· 5	1	0	0	0	. 5	9	.556	.778	.515
Menagement	3 +	1	0	3	0	0	. 0	1	5	.600	.800	.580
Breek	*	0	0	0	0	0	0	0	• 0		0.000	· p @ q @ @
- Nonecademic	• 5 •	0	0	0	0	0	0	0	• 0			. (p) (p) (p) (p)
Other Academic	6 +	0	, 0	0	0	, 0	0	0	• 0			
None of the Above	7 +	0	0	0	2	0	0	63	÷ 65	,969	. 985	. 856
. *	* **	**** *	**	• • • • •	• • • • •	****	****	*****	*******			
Herginal 1	rotel# +	5	7	4	2	0	0	66	. 84		•	•
	•								*******	•		

Cetegory Merginal Agreement: .713
Cohen:s Kappe: .684

DEST CONTRACTOR

Table 33

Reliability on General Content Observer 20 - Expert 80 School 801 Grade 2 Week 0 Day 4 DMP

•		Cet	e 90ry	chos	en by	0650	rver	20	Merginel	Nominel	· Merginel	Light's Extension
Getegory chosen by Expert 80	Cat.	1	2	3	4	5	6	7	Totels	Agreement	Agreement	of Kappa
	•••	• • • • • •	****	****	****	****	****	****	******	•		
halt	1 +	3	1	1	0	0	0	0	. 5	•600	.600	,585
Trensition	2 +	0	6	0	0	0	. 0	3	• 9	.667	.889	,632
Menegement	3 •	0	1	•	` 0	0	0	. 0	• 5	. 800	1.000	,767
	•	0	0	0	0	0	0	- 0	• 0) ``#####	0.000	
Breek		·	-	-	•	0	0	0	• 0			
Nonecedemic	5 • •	0	0	0	0		•		•			
Other Acedemic	6 +	0	0	0	0	0	· .	0	• 0			
None of the Above	7 •	0	0	0	1	0	0	64	+ 65	, 985	,970	,924
	**	*****	****	****	****	****	****	• • • • •	******			
Marginal 1	* * * * *	3	8	5	1 -	. 0	0	67	84			
	* **	*****	· • • • •		****	****	****	• • • • •	*******			
•										. ₹		

Cetegory Margine! Adresment: .692

Cohenis Keppel .773

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Table 34

Reliability on General Content
Observer 30 Expert 90
School 801 Orade 5
Week 0 Day 4
DMP

4	A-	Cat	eg ory	chos	en by		Merginal	Light's Extension				
Category chosen by Expert 90	Cat.	1	S)	3	· •	5	6	7	Margina; Totels	Agreement	Agreement	of Kappa
	•••	****	****	****	****	****	••••	****	******	,		
weit	1 +	0	0	0	0	0	0	0	• 0		0.000	· # # # # #
Transition `	2 + +	0	, o	0	0	0	0	'1		0.000	0.000	0.000
Penagement,	3 +	1	0	0	0	0	0	0		0.000	0.000	0.000
Brock	• •	0	0	0	0	0	0	0	• 0	*****	0.000	
Nonecademic	• 5 •	0	0	0	0	0	0	3	3	0.000	0.000	0.000
Other Academic	6 +	0	0.	0	2	0	0	0	2	0.000	0.000	0.000
None of the Above	7 *	4	0	0	0	0	0	67	71	.944	1.000	,378
	* **	• • • • • •	****	• • • • •	****	****	> • • •	*****	••••••			
Marginal T	otels +	5	0	0	a J	ر کو	0	71	70			
	* **	• • • • • •	****	• • • • •	****	****	****	*****	*****	•		-

category Merginal Agreement: .143

Cohen's Kappel .177

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Table 35

Reliability on General Content Observer 40 Expert 90 School 801 Grade 5 Week 0 Day 4 DMP

,	. :								Nominal	Herginal	Light's Extension	
Category chosen by Expert 90	Cat.	1	2	3	4	5	6	7	Totals	Agreement	Agreement	of Kappa
	•••	• • • • •	****		****	****	****	*****	*****	•		
walt	1 •	0	0	0	0	0	0	0		· • • • • • • • • • • • • • • • • • • •		
Transition	2 +	0	1	0	0	. 0	0	0 ,,		1.000	1.000	1.000
Management	3 +	0	0	1	0	0	0	0	1	1.000	1.000	1.000
Breek	• •	0	0	0	0	0	0	0	• 0	• • • • • • • • • • • • • • • • • • • •	0.000	
Nonecademic	5 +	0	0	0	3	٥	0	0	3	0.000	0.000	0.000
Other Acedemic	6 +	0	0	0	2	0	0	0	2	0.000	0.000	0.000
None of the Above	7 +	0	0		0	0	0	71	71	1.000	1.000	1,000
	**	****	*** **4	****	****	****	****	*****	******			
Merginal T	otels +	0	1	1	5	0	Ü	71	78			
	4,4	****	*****	****	****	*****	****	*****	• • • • • • • • • •	•		

category Marginal Agreements .500

Cohenis Keppai .425 94

DEST



Table 36.

Reliability on General Content Observer 10 Expert 90 School 801 Grade 5 Week 0 Day 5

		Cat	egory	chos	en by	0bse	rver	10	Marginal	Nominal	Marginel	Light's Extension
Category chosen by Expert 90	Cat.	. 1	è	3	4	. 2	6	7	Totals	Agreement	Agreement	of Kappa
,	**	• • • • •	****	****	****	****	****	****	*******			
weit	1 +	1	0	0	0	0	0	0	.1	1.000	1.000	1.000
Transition	5 + +	0	1	1	0	0	0	0	• a	.500	• ñ 0 0	,483
Managament	3 +	0	0	0	0	0	0	0,	+ 0	, ,	0.000	
Breek	.	0	0	0	0	0	0	0	+ 0) 		
Nonecedemic	• 5 •	0	0	0	0	0	0	0	+ 0) 		
Other Academic	6 +	0	0	0	0	0	0	0	+ 0	• •		
None of the Above	7 +	0	0	1	. 0	0	Q	26	÷ 27	, 963	,963	,722
	•					****	••••	• • • • • •	* ******	♦ ♦		
Merginel T	otels :	1	1	2	0	0	0	26	÷ 30	♦ ♦		
	**	****	••••	****	****	****	••••	****	******	•	1.0	

Cohenis Keppel .692

DEST CONTINUES.E



Table 37

3

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reilability on General Content Observer 20 Expert 90 School 801 Grade 5 Week 0 Day 5 DMP

A	•	Cat	egory	chos	en by	0bs	er _, ver	20				Light's
by Expert 90	Cat.	1 [2	3	4	5	6	. 4	Mergine: Totals	Nomine: Agreement	Margina; Agreement	Extension of Kappa
	• • •	••••	****	****	****	****	****	• • • • •	******	•		
helt	1 •	0	0	0	0	0	0	1		0.000	0.000	0,000
Transition	s •	0	S	0	0	0	0	0	2	1.000	1.000	1.000
Management	3 •	0	0	O	0	0	, 0	0	• 0			
Break	*	0	0	0	0	0	°o	0			~~~~	****
Nonacademic	5 +	0	0	0	0	0	0	0			* ****	
Other Academic	6 •	0	0	0	0	0	0	0	• 0			·
Mone of the Above	7	0	0	0	0	0	0	27	27	1.000	,964	1.000
	• • •	*****	****	****	****	****	****	• • • • •	******	•	•	
Mer@inal T	otals +	0	2	0	0	0	0	28	30			
	•••	*****	****	****	****	****	****	*****	******	•		•

Category Marginal Agreements .65%

Cohents Kappel .Tes

96

1 1/2 m

Table 38

Rejiability on General Content Observer 30 Expert 80 School 801 Grade 5 Week 0 Day 5

		Cat	 eggry	chos	en by	0bs•	rver :	30	Marginal	Nouthal	Marginal	Light's Extension
Catagory chosan by Expart 80	Cat,	1	5	3	4	5	6	7	Totals	Agreement	Agreement	of Kappa
	•	*****	****	****	++++	****	****	++++	*****	•		
1.016	+	1	0	0	0)	0	0	• a	.500	500	,483
wait :	* •	0	0	0	0	. 0	` 0	- 0 -	+ 0	• • ===== ·	0.000	
Transition	7:	. 0	. 0	1	0	0'/	0	0	• 1	1.000	1,000	1.000
Management	•	. 0	0	0	0	Ó	0	0	• 0	? • • • • • • • • • • • • • • • • • • •		
Nonacademic '	+ 5 +		C	0	0	0	0	0	10	* *****	0.000	
Other Academic	e6 +	• 0	0	0	. 0	ͺ δ	0	0	0	Y 		** ** ** **
None of the Above	£ 7 .	0	, 3	ò	0	, 0	0,	. 54	27		. 889	, 444
•	,) 	• • • • •	****	. + + + +	****	*****	****	******	•		* . J
Merginal	Totali	1	· *3	1	0	1	O	24	30	* * *	•	•
•		• • • • • • • •	· • • • • •	++++	+++ +	*****	* * * * *	****	********	•	. 1	

Category Marginal Agreement! +478

Cohenis Kappel .518

Table 39

Reliability on General Content
Observer 40 Expert 80
School 801 Grade 5
Weak 0 Day 5
DMP

uib . ·	•	Cat	490 FY	chos	en by	068 4	rver,	40	* ************************************	· Noningi		Light's Extension
Category chosen by Expert 80	Cat.	1	. 5	3.	4 .	³ 5	6	7	Marginal Totals	Nomine; Agreement	Agreement	of Kappa
	+++	****	****	****	****	* +,+ +	****	*****	******		,	•
wait	1 +	1	0	0	0	.0	0	1	. 2	, 500	.500	,483
Transition "	2 * *	0	0	0	0	0	0	0	• 0			
Management	3 +	0	0	1	0	, ()	0	0	1	1.000	1.000	1.000,
Break	4.	0	o	0	. 0	0	0	0	• •)	# en (in ##	· ## ## ## ##
Nonecademic	5 +	0	0	0	0	o i	· 0	0	• 0			***
Other Academic	6 +	0	0	0	0	0	0	0,	• 0	****		0849#
None of the Above	7 +	0	0	0	. 0	0	0	27	÷ 27	1.900	,964	1.000
Marginal To	otals o	1	0	***** ** 1	0	0	0	26 *****	* * * * * * * * * * * * * * * * * * *	1	· .	
	•••	****	****	****	****	****	++++	*****	*******	• _		ż

Category Marginal Agreement: -.621

Cohents Kepps: .767

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ERIC Full Text Provided by ERIC

Table 40

Reliability on General Content
Observer 10 Expert 90
School 801 Grade 2
Week 0 Day 5
WDRSD

•		•		•						t ,	· ` ~ ' ·	
,		Cat	# 3 0 F Y	chos	en by	0b86	rver	10	Marginal	Nominal.	Merginel	Light's Extension
Category chosen by Expert 90	Cat,	1	2	3	4	5	6	7	Totals	Agreement		of Kappa
• .	* *	****		****	****	***	, , • • • •	• • • • •	*****	,		٠ ,
wait	* 1 *	0	0	0	0	0	- 0	0	• 0		***	#
Transition	5 + +	Ò	. 1	0	0	, O	0	0	1	1.000	.500	1.000
Panagement	3 +	.0	0	0	0	0	0	400	* 0		al es pr 40 .	
Breek .	4 +	0	0	· 0	. 0	0	0	0	• 0		****	
Nonecademic	\$ + ,	0	0	, o	0	, 0	0	n	• 0		******	
Other Academic	6 +	٠ ٥	0	0	, O	9	0 3	, 0	• 0			(p 4 4 18 4
None of the Above	7 *	. 0	1	´ O	0	0	0	52	53	.981	. 981	,491
,	* **	*****	****	• • • • •	****	• • • • •	****	*****	*******	•	•	•
Merginel 1	rotele +	0 .	s	۰,0	. 0	0	0	25	54	,	<u>.</u>	•,
A , ,	**	*** <u>*</u>		• • • • •	****	****	****	*****	*******	•		

Category Marginal Agreements . 341

Cohenia Kappai .658

Table 41

Reliability on General Content
Observer 20 Expert 90
School 801 Grade 2
Week 0 Day 5
WDRSD

•	,	Cat	egory	, ch os	en by	, Obse	rver	20	Marginal	Nominei	Marcinel	Light ¹ 8 Extension
Category chosen by Expert 90	Cat.	1	a 5	3	•	5	6	. 7	Totals	Agreemen:	Agreement	of Kappa
	+4	÷+++	****	****	****	*++'++	****	• • • • • • •	******			
,.	•		√0	0	0	. 0	0	0	• 0			
wait	1 +	0	,		•	·		_	•	0.000	1,000	019
Transition	5 +	0	0	0	0	. 0	0	1 .	•	•		
Management	3 +	0	0	0 <	. 0	' > 0	. 0	0	• '0	* *******	. es es es es 🛡 🛡 1	
•	•		^	, ₀	٠,	Ø	0	0	• 0	• ====================================		## # # # #
Break	• •	Q	U	U	v		•		•	+		·
Nonacademic	5 +	0	0	0	0	.0	0	0	♦ 0	• .ucazz	•	
Other Academic	5 +	0	0	0	. 0	0	0	. o .	• 0	4 . A w###		*****
	•	_			0	0	· 0	`52	÷ 53	. ,901	1.000	· • · 0 2 9
None of the Above	7 +	O	1	0	U	٧		J.	•	•		
● .	•	*****	****	****	*** *	****	****	+++++	*****	• •	•	3 5.
weeding! T	+ • • • • • • • • • • • • • • • • • • •	. 0	1	0	0	, o	0	53	+ 54	• · · · · · · · · · · · · · · · · · · ·		
Marginal T	+		•					· · · · · · · · · · · · · · · · · · ·		◆ • ◆		
	•	+++++	****	****	***	*****	,	· • • • • • •	• • • • • • • • • • • • • • • • • • • •			

Category Marginal Agreements 1,000

Cohenia Kappai - 019

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Table 42

1.

Reliability on General Content
Observer 30 Expert 80
School 801 Grade 2
Week 0 Day 5
WDRSD

Category chosen by Expert 80	Cat.	, tot	egory 2	chose	n by	0bs0	rver -	30 7	Merginal Totals	Nominai Agreement	Margina! Agraement	Light's Extension of Kappa
	10 · ·	*****	****	*****	***	****	****	****	******) ,		
•	•	. 0	.0	4 0	0	0	Q	0	• 0		0.000	40 00 00 00 00 00
wait	•	•	•	0	Δ	0	0	o ·	• 1	1,000	1.000	1,000
Transition	5 4	• ₁ 0	•		•	•			• 3	• .667	.667	,654
Fanagement	3	• O	0	5	0	0	•	•	+	• • =====	0.000	
Break		• 70	0 ,	0	0	a 0	0	0	•	•	0.000	0.000
Nonacademic	5	• • • • • • • • • • • • • • • • • • • •	0	0	1	0.	0	Q '	· • 1	+ 0.000 +	0.000	,
• '		• • . 0	0	0	0	0	0	0	• 0	+	******	*****
Other Academic	6	◆	•	-	_	۰'	Ö	46%	+ 49	• .939	1,959	.526
None of the Above	7	• 3	0	0	0	υ		. 40 1	•	•		
,		******	****	****	****	****	* * * * *	** ***	********** *	•		
, Marginal	Totals	+ 3	1	2	1	0	0	47	3. 54	•	•	Ü
, , , , , , , , , , , , , , , , , , , ,		• `	****		• • • •	*****	· ••••	****	******	•		
		****							44			

cetegory Merginal Agreement: .438

Cohenis Kappal .554

Table 43

Reliability on General Content
Observer 40 Expert 80
School 801 Grade 2
Week 0 Day 5
WDRSD-

	·	Cat	- 907,7	chose	n by	. Obser	ver ·	40 ,	Marginal	Nominel	Marginal	Light's Extension
Category chosen by Expert 80	Ĉat,	1	2	3 _V	4	5	,6	7	Totals	Agreement	Agreement	of Kappa
	* ***	****	****	****	*	*****	****	*****	******		•	
walt	1 +	0	0	o´	0	0.	۰ 0	· .0 1	• 0		******	* *****
Transition	5 + +	, 0	1	0 `	0	0	. 0 ′	0		1.000	1.000	1.000
Management	* 3 *	, 0	0	3	0	. (0	0	0	3	1.000	\$ \$.000	1.000
" Breek	• • • • • • • • • • • • • • • • • • •	0	0		0	0	0	. 0 ,-	0		. 0.000	,in
Nonacademic	* 5 *	0	0	0	1	0 /	0	0 .	• 1	0.000	0.000	0.000
Other Academic	. 6 +	o ·	0 '	0	0	0	• 0	0	* 0 / 4	·*****	- 単位 単音学・	
None of the Above	* *	0	0.	0	0	0	_ 0 `	49	+ 49	1.000	1.000	1.000
	* ***	****	****	****	** **	*****	* * * *	*****	*****			* *
Marginal T	otals +	0	1	3	1	0	0	49	54		•	
	` ¢							*****	* **********	,		;

Cohenis Keppel .893

Table 444

Rejability on General Content
Observer 10 Expert 80
School 801 Grade 2
Week 0 Day 5

9	_	•		•				•		Ł	٠,	•	
,	 •/~ •		Cat	egory	chos	en by	0686	rver :	10	Marginal	Nominal	Marginel	Light's Extension
Category choren. by Expert 80	Cat.		1	2	3	4	5	6	7	Totals	Agresment	Agreement	of Kappa
•	,	***	••••	*****	****	+++ <i>*</i>	****	****	*****			•	•
Walt	1	+ .	2	, 0	1	0	0	0	0.	3	.667	.667	.658
Transition	ģ	+	0	0	0	0 -	΄, Ο	, oʻ.	0 -	, 0	****	: go go ao de 100	
- Management -	, 3	+	0	0	, 0	0	0	0	3	2 -	0.00.0	.335	083
⊋ 8reak	4	*	, 0	o ·	0	, 0	0	. 0	0	0		# 49 M (F)	
Nonacademic	° 5	*	0_	0	0	0	0	0	0	0 ,		****	
Other Academic	6-	+	0	0	. 0	0 .	. 0	۰,	 o	0	**************************************	*:************************************	
None of the Above	," 7	*	0	0	, 5	ó	0	0	68	73	,932	,959	.332
,		. * ****	***	*** **	*****	****	****	****	+++++	*****			
Marginal	Totals	*	2	0	6	0	0	0	70	78,			•
ī.	•	•							+++++	******	•		, •

Category Marginal Agreements .653

Cohenia Kappai .341

Table 45

Reliability on General Content Observer 20 Expert 80 School 801 Grede 2 Week 0 Day 5

	1		tegory	chos	ien by	0bs	rver	20	Merginal,	· Nominel	Marginel '	Light's Extension
Category chosen by Expert 80	'Cat.	1	24	3	4	5	6	7	Totals	Agragment	Agreement	of Kepps
•	. ••	****	*****	/ <u>*</u> ****	****	****	· • • • • •	• • • • • • • • • • • • • • • • • • •	****************	•	· •	
weit	1 +	, 2	0	0	0	΄ ο ͺ	0	1	. 3	• 667	1.000	,653
Transition	2,+	0	0	0	0	O	. 0	0	• 0 3	-		· = = = = =
·	*	· \ 0	0	0	0	· o	. 0	. 2	+ 2	0.000	0.000	0.000
Management	•			•	•	l _o	· 0	Q	♦0;			
Breek	* *	0	. 0	0	~ 0			_	• 0) }		
Nonecalemic	5 +	0	0	0	0	0	. 0	0	•	•		,
Other Academic	6 +	0	, 0	0-	0	0	0	0	• (0,	• •	· · · · · · · · · · · · · · · · · · ·	
None of the Above,	7 +	1	0	0	0	0	0	72	÷ 73'	. 986	,973	,644
	+	*****	****	• • • • •	****	****	****	****	******	•	•	•
Merginel T	otale ;	3	0	0	0		. 0	75	* 78 *	• •		****
	•	+++++	++++	****	****	****	****	++++4	******	•		

Cotegory Marginal Agraement: +658
Cohents Kappa: +480

Table 46

Phase IV - 10E Evaluation Project Descriptive Study - Spring 1978

Reliability on General Contant Observer 30 Expert 90 School 801 Grade 2 Week 0 Day 5

₩ .*		0-4				A 1		•-				
Category chosen by Expert 90	Cat.	1 -	2	- 3	ian by	5	erver 6 °	7 '	Margina; Totals	Nomina; Agreement	Marginal Agreement	Light's Extension of Kappa
·	***	****	****	****	****	****	*****	*****	******	,	· ·	•
Halt	1, +	2	0 -	0	" of	0	0	. 0	+ 2 +	1.000	• 400	1.000
Transition	2 0	0	5	o´	0	`o`	0	2	• • •	.500	.750	, 481
Menagement	. 3 +	0	0	0	0	0	0.	0	• 50	,	******	*****
. Break	4 , +	1	0	0	1	0	0	· 0	+ 2 +	.500	.500	. 494
Nonecademic ~	5	0	0	0	. 0	0	o	0	+0+	*****		
Other Academic	6 +	0	0	O	0	0	0 .	0 _	+0+	***		- 经保证条件
None of the Above	7 +	2 =	1	ď	0	0	.0	73 ,	• 76 •	,961	.967	632
	***	****	****	*** *	****	• • • • •	****	*****	· •••••			,
Merginel T	* * * * * * * * * * * * * * * * * * *	5	3	0	1	C	0	75	•		•	
	. •••	****	*****	****	** ***	****	****	+++++	· •••••			•

Category Merginal Agreements .489

Cohenis Kappa: .622

Ťable, 47

-Reliability on General Content Observer 10 Expert 90
- School 801 Grade 2
- Week 0 Day 5

DMD

~ b		Cet	egory	chose	en by	Obse	rver,	10	Magainat	Naminai	Marginal	Light's Extension
Getegory chosen "by Expert 90	Cat.	1	2 ′	3	4	5	6	7	Margine; Totals	Nomina! Agreement	Agreement	of Kappa
N	+44		****	****	••••	****	****	*****	*****		•	
Walt	1 +	. 2	. 0	0	0.	0	0	· O	2	1.000	,667	1.000
Transition	2 ·	Ç	5	0	ó	0	0	. 8	•	. 500	.500	488
,Management	3 +	o	• 0	0	0 -	0	0	0	• 0			, , , , , , , , , , , , , , , , , , ,
Break.	4 +	1 .	. 0	0	1	0	0	0	•/ , 2	.500	.500	494
, Nonacademic	* 5 *	0	0	0	0 _	0	e	0	•	*****	0 = 0 = N	*****
Other Academic	6 +	0	0	0	G	0	0	0 '	• .		gas gas any tao 100 -	
None of the Above	7 *	0	0	o	0	0	0	76	76	1.900	.974	1.000
1	* **	••••	• • • • •	*****	****	****	****	*****	******	, ,		
Marginal T	otals +	3	2	0.	1	Ö	0	78	84		,	
•	*				****	****	••••		******	, , , , , , , , , , , , , , , , , , ,	•)

Category Marginal Agreements .66

Table 48

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Pace
Observer 10 Expert 90
School 801 Grade 2
Week 0 Day 4
WDRSD

•	•	. 7	gory ch	10	• 4	N :		Lightis
Category chosen	Çat. #	1	2	3	-Marginal - Totals	Nominal Agreement	Marginal Agreement	extension of Kappa
		(* ++++j+++	*****	* +++	++++++++		•	•
·, self	1	+ 30	0	0-	* 30 *	1.000	.857	1.000
othèr	. 2	+ + * , 5	19	Ó	+ 24 +	.792	,792	,679
Neither	3	+ + •	0 · '	, 0	+ 0, +	00 as as to 40		
Margina) Totals	++++++ + 35	++++++ 19	0	+++++++++ + + 54 +		,	ð

Cohenis Kappai .809

Reliability on Pace
Observer 20 Expert 90
School 801 Grade 2
Week 0 Day 4
WDRSD

			ory cho		<i>F</i>		•	Cightis
Category chosen by Expert 90	cat.	. 1	2 3	·, З	Marginal Totals	Nominal Agreement	Marginal Agreement	extension of Kappa
	* + +	++++		++++	· · · · · · · · · · · · · · · · · · ·		•	
Self	• 1 ••	27.	5	1	+ 30 +	. 900	.938	.755
other	5 +		17	2	+ 24 +	.708	.792	•550
Neither	3 +	0	0	0		,		•
3	++	****	++++++	++++	++++++++	•	.4	•
Märginal	Totals +	, 32	19	з .	+ 54 +	,		
·	••	****		+ / + + +	****	· • ·		

category Marginal Agreement: .576

Cohen's Kappal .640

110

Table .50

Reliability on Pace
Observer#30 Expert 80
School 801 Grade 2
Week 0 Day 4
WDRSD

	,			egory chosen Observer 30						·	. Lightis
by Expert 80	° Cat		1	2	3	٨	largina Totals		Nominal Agreement	Marginal Agreement	Extension of Kappa
. •	•	++	++++	++++	++++	++++	*****	+ +		,	
Self	, 1	+	33	0	. 1	+	34	+	.971	1.000	.932
Other	5	* +	0	15	, 0 .	+	15	• •	1.000	· •833 ·	1.000
Neither.	' `3	+	1,	3	7	+ +	11	+	.636	.727-	.580
e.	9, 2 S	++	* * * * * *	++++	* * * * * *	+++	· +++++	++		·	•
Marginal	* ,	+	34	18.	8	+ .	60	+	*	•	
*		\+ +++	++++	+++	* * * * * *	+ +++	+++++	+ ++		<i></i> ★	
									•	•	_

Category Marginal Agreement: .854

Cohen's Kappa: ,856

Table 51

Reliability on Pace
Observer 40 Expert 80
School 801 Grade 2
Week 0 Day 4
WDRSD

Category chosen	Cat.	by Ob	ory coserve	hosen er 40		rgina otals	- 1	Nominal Agreement	Marginal Agreement	Lightis Extension of Kappa
by Expert 80	# ,		E	3	•	0.013	ĭ	ASI CEMENT	MAI ADMOND	-
• •	٠.		++++	+++++	++++	++++	* +			
-Self '	1	+ 33	0	1 .	+	34	* *	.971	1.000	,932
other		•	15	0	•	15	, +	1.000	.882	1.000
Neither	3	• • 1	2	8	+	11	+	.727	.818	,679
	,	• • • • • • • • • •	•••••	P++++·	****	++++	+		•	,
Marginal	Totals	* * 34	17	, 9	* *	60	+		•	•
•	•	++++++	++++	++++	++++	++++	++	(7	,

Category Marginal Agreement: .90

Cohen's Kappal .885

Table 52

Reliability on Pace (Observer | O Expert 80 School 801 Grade 2 Wask O Day 4 DMP

\ •			egory Observ	chosen er. 40	_	,		Lightis
by Expert 80	Cat.	1	· 2	3	Marginal Totals:	Nominal Agreement	Margina! .Agræement	Extension of Kappa
c .		+++++	++++	+++++	*****		7	
Self	1 +	. 27	54	. 5	+ 34 +	. 794	.941	. 667
other	2 +	4	27	0	+ 31 +	. 871	.939	,.787
Neither	3 +	1	ì	17	+ 19 +	. 895	1.000	.864
•	•	+++++	****	+++++	*******	4		
Marginal	Tokals +	32	33	19	+ 84 +			
	*	+++++	****	, *+++ +	* * * * * * * * * * * * * * * * * * * *			~

category Marginal Agreementi .960

Cohen's Kappal .762

Table 53

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Pace
Observer 20 Expert 80
School 801 Grade 2
Week 0 *Oay 4

		by Ol	gory cl pserve				, mainat	Lightis
Category chosen by Expert 80	, Cat.	1,	2	3	Marginal, Totals	Nominal Agreement	Marginal Agreement	extension of Kappa
	•	+++++	****	++++	· , • • • • • • • • • • • • • • • • • • •	•		•
Self	1 +	3.0	* 3	1	+ 34 +	.882	.895	.785
other	5 +	7	24,	0	+ 31 +	1774	871	, 667.,
Neither	3 +	1	0	18	+ 19 +	,947	1.000	.932
•	• • • • • • • • • • • • • • • • • • •	+++++	· + + + + + +	++++	* ********		♦	•
Marginal	Totals +	38	27	19	* 84 . *		•	, 118

category Marginal Agreement; ,922

Cohen's Kappal .779

Table 54

Reliability on Pace Observer 30 Expert 90 School 801 Grade 2 Week 0 Day 4 DMP

	,	•••		ory c							Lightis
-	ory chosen Expert 90	Cat.	1	5	3		argina Totals		Nominal Agreement	Marginal Agreement	extension of Kappa
		`	++++++	++++	++++	A++	, ++++,+	++			•
~	serf	1	+ + 46	1.	1	+	48	+	,958	.857	.852
•	other	5	+ + 5	14	3	* *	55	+	.636	•682	.550
	Neither	. 3·	• \ 5	0 ,	3	•	8	+	.375	.875	,313
			****	++++	++++	+++	+++++	* *	•	4.8	é
	Marginal To	tals	+ 56.	15	7	* +	78	*	,		
	•		++++++	+++++	++++	+++	+++#++	++			t

Category Marginal Agreement: .805

Cohents Kappai .611

Table 55 . .

Reliability on Pace
Observer 40 Expert 90 -School 801 Grade 2

* Week 0 Day 4

DMP

by Expert 9.0 W 1 2 3 Totals Agreement Agreement of Kapp **********************************		. • •	,		gory o	chosen er 40			,	Lightis
Other 2 + 4 18 0 + 22 + .818 1.000 .747 Nelther 3 + 1 0 7 + 8 + .875 .875 .863				~ 1	Ş	.3				Extension of Kappa
Other 2 + 4 18 0 + 22 + .818 1.000 .747 Nelther 3 + 1 0 7 + 8 + .875 .875 .863	•.	4.	•	Z++++	*** **	+++++	******		. 3	• • • • • • • • • • • • • • • • • • • •
Nelther 3 + 1 0 7 + 8 + .875 .875 .863	Se	Iŧ,	1 +	,44	4	0	+ 48 +	, •917	. 980	.776
* * * * * * * * * * * * * * * * * * *	ot	her	2 +	4	18	0	+ 55 +	.818	1.000	.747
***************************************	Ne	Ither	3 ±	1	'0	7	+ 8 + +	.875	.875	,863
the state of the s		*	* *)) 	+++++	+++++	* ******* *		* .	
Marginal Totals + 49 22 7 + 78 + + + + + + + + + + + + + + + +		Marginal	Totals +	49 <u>.</u>	55	7	+ 78 +			•
***************************************	•		. •	• • • • • • •	+++++	• • • • • • • 	**************************************			122

Category Marginal Agreementi .952

Cohenis Kappai .780

Table 56

Reliability on Pace Observer 10 Expert 90 School 801 Grade 5 Week 0 Day 5

•	• • •			ory ch		<u> </u>		-			Lightis
Category chosen by Expert 90	Cat.	1	1 2 3			Manginal Totals		Nominal Agreement	Marginai Agraemant	Extension of Kappa	
		+++	++++	+++++	+++	+++	+ + + + +	+++			
		+				•		(•			
Self	1	+	25	0	2	+	27	+	.926	,926	,556
other	2	+	0	0	0	*	0	*	40 40 40 50 40	कृष्टि केल एक कर वर् ड	
		+				+		•			
Neither	3	•	0	0	3	•	3	+	1.000	,600	1,000
		•				•		•		٠.	
		++++	+++4	**** *	+++	+++	++++	+++		•	
		4				•		•			
Marginal T	otals	•	25	0	5	•	30	+			
		•				+		+			
		+++	++++	++++++	+++	+++	++++	+++			

category Marginal Agreement: .763

Cohen's Kappa: .714



Table 57

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Pace Observer 20 Expert 90 School 801 Grade 5 Week 0 Day 5 DMP

. 722

•			ory ch server			,	Marginal	Light!s Extension
Category chosen by Expert 90*	Cat. *	e 1	5	3	Marginal Totals	Nominal ' Agreement'	Agreement	of Kappa
α ; γα.	· · · •	++++++	++++	++++	******		•	
Self	1	+ 27	0	0 .	. 27 +	1.000	.964	1.000
Other	2 .	+ 0	0	Q.	+ 0 +	***	gay) 400 may now 400	
Neither	3	• • . 1	0	2	* 3 *	_ ,667	•667	,643
,	•	+ +++++++	++++	++++	*			,
Marginal	Totals	+ + 28 -	0	5	+ 30 + + 30 +	• •		,
	\	* *******	++++	++++	******		а	()

Category Marginal Agraement: .al

Cohen's Kappa: .783

Table 58

Reliability on Pace
Observer 30 Expert 80
School 801 Grade 5
Week 0 Day 5
DMP

79			egory Observ					6	Lightis
Category chosen by Expert 80	Cat.	,	, 3	3	Marg! Tota	•	Nominal Agreement	Marginal Agréement	Extension of Kappa
,		+++++	*****	*****	****	++++			•
Self	1	÷ 11	. 0	0.	11	4	1.000	1.000	1.000
Other	Ś	+ 0	12	0	+ 12	•	1.000	1.000	1,000
. Neither	3	+ 0	0	7	* 7	•	1.000	1.000	1,000
· · · · · · · · · · · · · · · · · · ·	•	+. <u></u> +++++	****	*****	******	++++		•	
Marginal T	otals	÷ 11	12	7	+ 30	•	•		
		* *****	*****	****	* *****	* ***	•		

Category Marginal Agreement: 1.000

Cohen's Kappa; 1.000

Table 59

Reliability on Pace
Observer 40 Expert 80
School 801 Grade 5
Week 0 Day 5
DMP

		 		gory (chosen er 40	•	,		Lightis
	egory chosen Expert 80 /	Cat.	. '1	. 5	3	Marginal Totals	Nominal Agreement	Marginal Agreement	Extension of Kappa
	,		++++++	++++	* ++++	*****	•		the second secon
	Self	•	+ + 11	0	0	* 11 *	1.000	1.000	1.000
•.	Other	. 5	+ + 0 ,	12	. 0	+ 12 +	1.000	•923	1.000
	Neither	3	• 0	1	6	7	.857	.857	.821
			++++++	****	· • • • • •	*****	•	•	
	Marginal	Totals	• • 1:	13	6	+ 30 +	•		
		•	- ++++++	*****		*****		•	

category Marginal Agreement: .927

Cohen's Kappa! ,948

. Table 60

Reliability on Pace Observer 10 Expert 90 School 801 Grade 2 Week 0 Day 5 WDRSD

	. , , (gory bserv	choser er 10	1	,		Lightis
by Expert 90 #	Cat.	1	5	3	Marginal Totals	Nominal Agraement	Marginal Agreement	Extension of Kappa
	•	+++++	++++	+++++	******	,	•	
Self	1 +	0,	5	1	+ 6 +	0.000	0.000	0.000
Other	2 ÷	. 0	46	1	+ 47 +	•979	• 922	.617
Neither	3 +	0	0	1	† 1 †	1.000	•333	1,000
	•	+++++	****	+++++	* *******		, 6	
Marginal	rotals +	0	51	3	+ + 54 +		•	,
,	•	+++++	++++	++++	* ******	•	•	
•				,	4			

Catagory, Marginal Agreement: .418

Cohen's Kappa: ,267

Table 61

Reliability on Pace
Observer 20 Expert 90
School 801 Grade 2
Week 0 Day 5
WDRSD

		ЬУ	tegory Obser					•	• •	Lightis
by Expert 90	Cat,	•	1 a	3		Margina Totals	l Nomina Agraema		Marginai Agreement	extension of Kappa
•		++++	++++1	++++	+++	*** ****	••	1		•
Self	. 1	+	0 5	1	,	+ ,>* • 6	. 0.000		0.000	0.000
other	2	*	0 45	. 2		47 .	+ ,957		.922	, 234.
, Neither .	3	* *	0 1	0	•	1	+ `0.000		.333	-,059
		++++	+++++	+++++	+++	· • • • • • • • • • • •	• •			
Marginal	Totals	* *	0 51	3	· •	• • 54	*		•	
	. 7	++++	+++++	÷++++	+++	· • • • • • • • • •	• •	ž. 2		

Catagory Marginal Agreement: .418

Cohen's Kappai .058

Table 62

Reliability on Pace Observer 30 Expert 80 School 801 Grade 2 Week 0 Day 5 WDRSD

	•		ory o	hosen er 30		•	*	Lightis
Catagory chosen by Expert 80	Cat.	i ·	5	3	Marginal Totals		Marginal Agreement	extension of Kappa
	•	******	++++	****	****	•		e.
/ Self	1 +	.41	4	2	+ , 47	+ .872	.894	.426
other	s +	. 0	• •	5	÷ 5	+ 0.000	. 400	-,102
Nelther	3 +	.1	1	3	5 .	+ .600	714	•540
•	•	• + + + + + + •	, + + + + +	++++	**********	ф •	•	•
Marginal	Totals +	42	5	. 7	+ 54	•	t	,
	+	+++++	****	++++	******	+		

category Marginal Agreement: .669

Cohen's Kappai ,398

Table 63

Reliability on Pace
Observer 40 Expert 80
School 801 Grade 2
Week 0 Day 5
WDRSD

				ary ci		n	•		Lightis
Category chosen by Expert 80	Cat.	•	1	2	2	Marginal	Nominal	Marginai	Extension
DI EXPERT 60	•		*	E	3	Totals	Agraement	Agreement	of Kappa
:		++++	++++	+++++	+++	+++++++++			
Self	1	+	47	0	0	+ 47 +	1.000	1.000	1.000
Other	5	+	0	2	0	+ 2 +	1.000	1.000	1.000
Neither "	3	÷	. 0	0	5	5 +	1.000	1.000	1.000
		++++	+++	+++++	+++	*****			•
Marginal	Totals	* *	47	S	5	+ + + + + + + + + + + + + + + + + + +			
		++++	++ +	+++++	++++	*****			

category Marginal Agreement: 1.000

Cohen's Kappa: 1.000

Table 64

Reliability on Pace
Observer 10 Expert 80
School 801 Grade 2
Week 0 Day 5
DMP

			aory c	hosen ir 10		· · · · · · · · · · · · · · · · · · ·		Lightis
Category chosen by Expert 80	Cat.	1	5	3	Marginai Totais	Nominai Agreement	Marginal Agreement	Extension of Kappa
	•	*****	·.++++	****	++++++++		,	
Self	1	31	1	. 0	+ 35 +	. 969	• 969	.948
other	2	0	36	· 5	+ 41 +	.878	.951	,756
Neither	3	0	2	3	÷ 5 ÷	.600	•625	,554
•	· .	, ,+++++	****	****	******	4		
Marginal Tot	als	31	39	8	+ 78 +		0	
		, ,	* + + + +	+++++	+++++		, .	

Category Marginal Agreement: .848

Cohents Kappa; ,819

Reilability on Pace'
Obsorver 20 Expert 80
School 801 Grade 2
Week 0 Day 5
DMP

		by C	gory observe		•				Lightis
Category chosen by Expert 80	Cat,	1	5.	3	Margin Total	•	Nomina! Agreement	Margina; Agreement	Extension of Kappa
	•	*****	****	+++++	· · · · · · · · · ·	++		, *•	•
Self	1,	÷ 32	0	0	+. 32	+	1.000	1.000	1.000
other	5	+ 0	39	2	÷ 41	+	₃ 951	.976	.894
Neither	3.	+ 0 +	3	5	÷ 5	+ +	.400	.800	.368
	1	******	+++++	+,++++	******	+++			
Marginal To	ota!s	+ 32	42	4	+ + 78	+			
<i>;</i>	•	* *** ***	++*++	+++++	* *******	++ -			

Category Marginal Agreement: .925

Cohen's Kappa: .882

Table 66

Reliability on Pace
Observer 30 Expert 90
School 801 Grade 2
Week 0 Day 5
DMP

				ory cl						Manage and	Lightis
Catagory chosen by Expert 90	Cat.	•	1	2	3		argina Totals	_	Nominal Agreement	Marginai Agreement	extension of Kappa
		++++	++++	++++	++++	+++	+++++	++	•		
Self	1	+	56	8	. 1	+	65	+	.862	.985	.418
other	, 5	+	8	1	2	+	11	+	.091	.818	018
Neither	3	+	0	0	8	+	8	+	1.000	.727	1.000
· •		+ ++++	++++	+++++	++++	+ +++	**** *	+			·
Marginal To	tals	+ +	64	9	11	<u>د</u> +	84	+ +			
		++++	++++	++++	****	+++	+++++	++			

category Marginal Agreement: ..843

Cohen's Kappa: .411

Table 67

Reliability on Pace Observer 40 Expert 90 School 801 Grade 2 Week 0 Day 5

				ory c		1	•				Lightis
Catagory chosen	Cat.	, .				M	argin	al	Nominal	Marginal	Extension
by Expert 90	*		1	 5	· 3		Total	S	Agreement	Agreement	of Kappa
,		+++	++++	++++	++++	+++	++++	+++			1
	•	+	•	_		+	•	•		•	•
Self	1	•	63	2 .	0	•	65	1+	.969	.915	.801
•		+				•		•		•	
Other	, 2	•	8	2	1	+	11	+	.182	.364	.141
		• .				,		•		_	
Neither	3	+	0	0	8	•	8	•	1.000	.889	1.000
·		+				+		+			
		+++	++++	++++	++++	+++	+++ +	+++	1		
		•				+		•			
Marginal T	otals	+	71	4	9	•	84	•		•	
		+				•		•			
		+++	++++	++++	++++	+++	++++	+++			
										4	

category Marginal Agreement: .723

Cohen's Kappa: .603

Table 68

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Grouping Observer 10 Expert 90 School 801 Grade 2 Week 0 Day 4 WDRSD

Category chosen	Cat	Categor	y chos	en by	Obse	rver	-	· ·	Manalani	Lightis
by Expert 90	Cat.	1	2	3	. 4	5	harginal Totals	Nominal Agreement	Margina; Agreement	Extension of Kappa
	•	*****	+++++	+++++	· + + + + ·	++++		. \		•
Individual	1	+ 20	0	0	0	0	+ 20 +	1.000	.645	1,000 *
Pair	2	÷ 5	.	1	0	0	+ 5 +	. 400	.400	.377
Small Group (3-8)	3	+ + 5	0	7	1	0	+ 13 +	•538	.615	,458
Large Group (>8)	4	+ 4	0	0	12	0	+ 16 +	.750	.813	,671
None of the above	5	+ 0	. 0	0	0	0	• 0	100 TO 100 TO 100 TO	40 m to to th	\$0 00 00 Mg (ft)
		*****	+++++	****	++++	++++	******			•
Marginal	Totals	+ 31	2	8	13	• 0	* * * * *		•	
•		++++++	*****	****	++++	++++	* * * * * * * * * * * * * * * * * * * *	•		

Category Marginal Agreement; ,618

Cohenis Kappa: .644

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Grouping
Observer 20 Expert 90
. School 801 Grade 2
Week 0 Day 4
WDRSD

•	•	Category	cho	sen by		 Brvar	20	,		1	Light's Extension
Category chosen by Expert 90	Cat.	1	2	3	4 .	5	P	iarginal Totals	, Nominal Agreement	Marginai: Agreement	of Kappa
		++++++	++++	+++++	++++	++++	+++•	******	`		
Individuai	. 1	+ 19	0	- 0	0	1	· 4 ·	50 +	.950	.741	,900
Pair	2	+ +	1	. 0	0	Ö	+	. 5. ÷	.200	•400	.169
Small Group (3-8)	<i>.</i> 3	* * 1	1	10 .	0	1	+	13" +	.769	.769	.717
Large Group (>B)	: 4	+ 3	0	0 .	12		+	16 +	. ,750	.750	.679
None of the above	5	÷ 0	0	0	0	0	+	0 +	. Despe	0.000	
•		+ ++++++	· ++++	**** *	++++	++++	+++	• • • • • • • • • •	. .		
Marginal To	taļs	+ 27 ·	a	110	12	3	*	54			
		* ******	, +++	**** *	++++	++++	***	******	•		.

Category Marginal Agreement: .532

Cohenis Kappai .683

Table 70

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Grouping Observer 30 Expert 80 School 801 Grade 2 Week 0 Day 4 WDRSD

		Categor	y chos	en by	Obse	erver	30 Marginal	Nominal	Marginal	Light's Extension
Catagory chosen by Expert 80	Cat.	1	2	3	4	5	Totals	Agreement	Agreement	of Kappa
·		+++++	****	****	++++	++++	*******			
Individual	1	÷ 28	2	0	0	1	+ 31	.903	,935	,813
Pair	2	• 0	3	0	0	0	+ 3 +	1.000	.600	1.000
Small Group (3+8)	3	+ 0	0	0	0	0	+ 0 +	, gai day 40° on 14)	****	~~~ # ~
Large Group (>8)	4	+ 0	0	0	15	0	+ 15	1.000	.833	1.000
None of the above	5	+ + 1	0	0	3	7	+ 11	,636	.727	• <u></u> 580
		+	· + + + + •	· +	· +.+ + ·	++++	* ********	•		
Marginal To	otals	+ + 29	3	0	18	8	+ 60 +	•		
		·++++	+++++	++++	++++	++++	*****	•		

Category Marginal Agreement: .774

Cohen's Kappa: .820



Table 71

Rhase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Grouping Observer 40 Expert 80 School 801 Grade 2 Week 0 Day 4 WDRSD

Category chosen		Category	/ chos	en by	0bs	erver		Nominal	Negalasi	Lightis
by Expert 80	Cat.	1	2	3	4	5	Marginal Totals	Nominal Agreement	Marginai Agreement	Extension of Kappa
		++++++	· • • • • •	++++	++++	*****	**********	• (ø.
Individual	1	÷ 27	. 3	0	0	1	+ 31	.871	.903	.758
Pair	5	0	3	0	0	0 -	+ 3 +	1.000	•500	1.000
Small Group (3-8)	3	+ 0	0	e ^r O	0	0	+ 0 +		- (57) '400' talls (pin 1576) And	(F)
Large Group (>8)	4	+	0 .	0	15	0	+ 15 +	1.000	.882	1.000
None of the above	5	* * 1	0	0	2	8	• · · · 11	.727	.818	.679
	•	* *****	. + + + +	++++	* * * *	+++++	* *******			
Mordinal 1	Totals	+ 28	6	· 0	17	9	+ 60 +			
		+	****	++++	++++	+++++	* * * * * * * * * * * * * * * * * * *			

Category Marginal Agreement: .776

Cohents Kappat .822

154

Table 72

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Grouping observer 10 Expert 80 School 801 Grade 2 Week 0 Day 4 DMP

•		Category	chos	en by	0bs	erver	40 Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expert 80	Cat.	1	2	3	4	5	Totals	Agreement	Agreement	of Kappa
•		.++++++	++++	++++	* * * *	++++	++++++++	•		
Individual	1	+ 50 +	0	S	2	2	+ 56 +	.769	,962	.671
Pair		+ 5	6	0	1	0	+ 9 +	,667	,667	,641
Small Group (3-8)	3	+ 2	0	· 9	0	0	+ + + + + + + + + + + + + + + + + + +	.818	1.000	.791
Large Group (>8)	.4	+ 0	0	0	19	0	+ 19 +	1.000	.826	1.000
None of the above	5	•	0	0	1	17	+ 19	,895	1.000	,864
		+ + + + + + + + + + + + + + + + + + + +	++++	++++	* + + +	++++	******	•		
Marginal To	otals	+ + 25	6	11	23	19	+ 84 ·	· · · · · · · · · · · · · · · · · · ·		
		++++++	++++	++++	++++	++++	+++++++++	•		

Category Marginal Agreement: .891

Cohen's Kappai .799

Table 73

Reliability on Grouping Observer 20 Expert 80 School 801 Grade 2 Week 0 Day 4 DMP

			1					c .		
		ategory	y cho	sen by	/ 0bs	erver		Naminal	Marginal	Light's Extension
Category chosen by Expert 80	Cat.	1	5	, 3	4	5	Margina Totals	· ·	Agreement	of Kappa
	•	· • • • • • • •	· • • • •	****	· • • • • •	++++	******	• • •		
Individual	1	50	0	4	1	1	+ + 26	+ + ,769	.923	.677
Pair	2 .	1	7	1	0	. 0	+ + 9	+ + •778	.778	.758
Small Group (3-8)	3	+ 2 +	0	9	0	0	+ + 11	+ + ,818	.786	,782
Large Group (>8)	4)	0	O	19	,	+ + 19	+ 1.000	•950	1.000
None of the above	5 ·	· 1	0	Ô	· 0	18	+ + 19	+ + •947	1.000	.932
(•	, ,	*	* * * * * *	*	*** *	++++++++	+		
Marginal To	tals ·	+ + 24	7	14	20	:9	+ + 84	* *	,	
	•	, ,	* * * * *	++++	++++	++++	+++++++	* • * •		

Category Marginal Agreement: .887

Cohen's Kappa: .831

158

Table 74

Reliability on Grouping Observer 30 Expert 90 School 801 Grade 5 Week 0 Day 4 DMP

Category chosen	0.4	Categor	y cho	sen by	/ 0bse	rver					Lightis
by Expert 90	Cat .	_	· 2	3	4	5		orginal Totals	Nominal Agreement	Margina; Agreement	Extension of Kappa
	•	*****	++++		****	· • • • •	++++	****	•		
Individual	1	+ 36	. 1	. 0	0	1	*	38	. 947 .	,745	.848
Pair	5	÷ 3	. 5 ,	0	0	0	, *	8 +	. 625	.750	.594
Small Group (3-8)	3	+ 7	o '	6	- 1	0	+	14 +	•429	.429	.381
Large Group (>8)	4	+ 0	0	. 0	7	3	* +	10 +	.700	.800	,666
hone of the above	5	÷ + 5	0	0	0	3	+	8 +	.375	. 875	.313
		+ · · · · · · · · · · · · · · · · · · ·	• • • • • •	. + + + +	- • + + + +	++++	+ ++++	+ ++++++			•
Marginal :	Totals	+ + 51 +	6	6	8	7	* ·	7.8	·		,
		+++++++	++++	+++++	++++	++++	· + + + +	****			

Category Marginal Agreement: .720

Cohenis Kappa: ,578

159

Table 75

> Reliability on Grouping Observer 40 Expert 90 School 801 Grade 5 Week 0 Day 4 DMP

4 - 4 - 1 - 1 - 1 - 1 - 1 - 1		ategory	chos	en by	0b\$	erver		Nominal	Marginal,	Light's Extension
Category chosen by Expert 90	Cat.	1	. 5	3	. 4	* *5	Marginal Totals	Agreement	Agreement	of Kappa
Γ_3	· . •	++++++	++++	****	++++	+++++	*****			
Individual	1 +	35	2	0	1	0	+ 38	.921	.864	,819
Pair	2 +	2	6	0	0	0	+ 8	.750	1.000	,721
Small Group (3-8)	3 +	6	0	8	0	0	+ 14	.571	,571	522
Large Group (>8)	4 +	0	0	0	10	0	+ 10	1.000	.909	1.000
None of the above	5 4	1	0	0	0	7	+ B	.875	.875	,863
	•	, ,	****	· + + + + +	++++	++++	******			•
Marginal To	otals +	44	8	8	11	7	+ 78			
	4	, , , , , , , , , , , ,	++++	++++	++++	++++	*****			

Category Marginal Agreement: .844

Cohenis Kappai .770

162

Table 76

Reliability on Grouping Observer 10 Expert 90 School 801 Grade 5 Week 0 Day 5 DMP

		ategory	chos	en by	Obse	rver	10	Naminai	Manalani	Light's
by Expert 90	Cat.	1 .	5	3	4	5 👌	Marginal Totals	Nominal Agreement	Margina; Agreement	Extension of Kappa
	+	+++++		++++	++++	***	******	•		
Individual	1 +	55	0	0	0 .	2	+ 24 +	.917	1.000	.583
Pair	5 +	0	1	0 ,	, o	0	+ 1	1.000	1,000	1.000
Small Group (3+8)	3 +	1	0	0	0	0	• 1 •	0.000	0.000	0.000
Large Group (>8)	+	-1	0	'Ω <u>/</u>	0	0	÷ 1 ÷	0.000	0.000	0.000
None of the above	5 +	0	0	0	0	3	+ 3 +	1,000	.600	1.000
	+	++++++	+ + + + +	++++	++++	++++	*	* * * * * * * * * * * * * * * * * * * *	•	,
Marginal To	tals +	24	1	0	0	5	+ 30 +	• •) /
6.	.	+++++	**	++++	++++	+++++	* * * * * * * * * * * * * * * * * * *	,	,	

Category Marginal Agreement: .520

Cohents Kappa: .610

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Grouping Observer 20 Expert 90 School 801 Grade 5 Week 0 Day 5 DMP

		Category	chos	en by	0bse	rver			······································	Light's Extension
Category chosen by Expert 90	Cat, #	1	2	3	4	5	Marginai Totais	Ncminal Agraement	Margina <u>i</u> Agreement	of Kappa
		**** **	****	++++	*** *	****	*****			
Individual	1	+ + 24	0	0	0	0	+ 24 +	1.000	.857	1.000
Pair	5	+ + 1	. 0	0	0	0	+ 1 +	0.000	0.000	0.000
Smail Group (3-8)	3	+ + 1	0	0	0	0	+ 1 *	0.000	0.000	0.000
Large Group (>8)	4	+ + 1	0	0	0	0	+ 1 +	0.000	0.000	0.000
None of the above	5	• • 1	0	0	0	s	+ 3 +	, 567	,667	.643
		+ ++++++	****	++++	*** *		+ +++++++			
Marginal T	otals ·	+ + 28	o	0	0	2	+ 30 +			
•	•	+ +++++++	++++	++++	*	++++	* * * * * * * * * * * * * * * * * * *			

Category Marginal Agreement: .305

Cohen's Kappa: .459

166



Table 78

Reliability on Grouping Observer 30 Expert 80 School 801 Grade 5 Week 0 Day 5 DMP

	-		egory	chos	en by	Obse	rver	30 Ma	rginal	Nominal	Marginal	Light'sExtension
Category chosen by Expert 80	Cat.	•	1	2	3	4	5		otals	Agreement	Agreement	of Kappa
		+++	++++		++++	++++	++++	+++	* * * * * * *	· .	•	•
Individual	1	*	9	0	0	0	O	*	9 +	1.000	.818	1.000
Pair	2	+ +	1	0	, 0	0	0	+	1 *	4 0.000	0,000	0.000
Small Group (3-8)	3	+ +	1	0	0	0	0		1 4	0.000	0.000	0.000
Large Group (>8)	به	+	0	0	0	12	0	.) \\	12	1.000	1.000	1.000
None of the above		•	G	0	0	0	7 -	+	7	1.000	1.000	1.000
		+	++++	++++	++++	. + + + +	++++	****	· • • • • • • •			
marginal To	otal s	+	11	0	0	15	7	+	30.	,		
		+ + + +	++++	· + + + • •	++++	****	++++	****	• • • • • •			

Catagory Marginal Agreement: .564

Cohen's Kappa: .901

Phase IV - IGE Evaluation Project Descripcive Study - Spring 1978

Reliability on Grouping Observer 40 Expert 80 School 801 Grade 5 Week 0 Day 5 DMP

		Catego	rý cho	sen	by Obs	server				Lightis
Category chosen by Expert 80	Cat.	1	2	. 3		, 5	Marginai Totais	Nominal Agreement	Margina; Agreement	Extension of Kappa
		+++++	++++	+++4	****	++++	• • • • • • • • • • • •			
Individual	1	÷ + 9	0	1 (0	0	. 9	1.000	•900	1.000
Pair	5	* *	0		0	0	1	0.000	0.000	0.000
Small Group (3+8)	3	÷ . 0	0	1	. 0	0	1	1.000	1.000	1.000
Large Group (>8)	4	+ 0	0	10	7 12	0	+ 12	1.000	•923	1.000
None of the above	5	* 0	0	O	1	6	7	.857	.857	.821
•		++++++		++++	+++++	+++++	· • • • • • • • • • •	•		
Marginal Tot	to!\$	+ + 10 +	o	1	13	6	+ 30 +	•	,	
		+++++	++++	+++	*****	*****	*****	•		

Category Marginal Agreement: .736

Cohenis Kappai ,902

170

Table 80

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Grouping Observer 10 Expert 90 School 801 Grade 2 Week 0 Day 5 WDRSD

Catagory chosen	•	Category	chos	en by	Obser	ver		Naminal		Lightis
by Expert 90	Cat,	1	. 5	· 3	4	5	Marg na Totals	Nominal Agreement	Marginal Agreement	Extension of Kappa
•		*****	++++	****	+++++	++ +	++++++		•	ь
Individual	1	+ 0	0	0	0	1	* * * * * * * * * * * * * * * * * * *	0.000	0,000	0.000
Pair	s	+ • 0	0	0	0	0	+ 0 +	***	## ## ## ##	000 the fee fee fee
Small Group (3-8)	3	+ 0	0	0	0	0	+ 0 +	## ## ## ## ##	## ## so sp ##	, ************************************
Large Group (>8)	4	+ 0	0	0	51	1	• 5a •	.981	,981	.654
None of the above	5	÷ 0	0	0	0	1	• • • • • • • • • • • • • • • • • • •	1.000	,333	1.000
		* ******	+++++	++++	*****	+++	*******			
Marginal To	tals	+ • 0	. 0	0	51	3	+ + + + + + + + + + + + + + + + + + +		,	
		+ +++++++	++++	****	• • • • • •	+++	***********		•	·

Category Marginal Agreement: .438

Cohen's Kappa: .586

Table 81

7

Reliability on Grouping Observer 20 Expert 90 School 801 Grace 2 Week 0 Day 5 WDRSD

		çate	gory	chos	en by	Obse	rver	50			Lightis' Extension
Catagory chosen by Expert 90	Cat.)	1	2	3	4	5	Marginai Totais	Nominal Agreement	Margina; Agreement	of Kappa
		++++	+++	·++++	++++	* * * * 	****	+++++++	•		
Individual	1	+	0	0	0	0	1	+ 1 +	0.000	1.000	019
Pair	. 5	• · ·	0.	0	0	0	0	+ 0 +	She can gad two date		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Small Group (3-8)	3	+	0 °	0	0	0	0	+ 0 +		€ € € € €	44 to 10 to
Large Group (>8)	4	+ +	1	0 %	0 ,	49	2	+ 52 +	,942	.962	.221
None of the above	5	+ +	0	0	0	1	0	+ 1	0.000	.333	-, 059
		+ ++++	+++	· · + + + +	*** *	++++	++++	* **** <u>*</u> ****		<i>,</i> .	
Marginal To	tals	+ +	1	0	0	50	3	+ 54 +		,	t
		* * * * *	+++	* * * * * *	++++	++++	++++	* * * * * * * * * * * * * * * * * * *			

Category Marginal Agreement: .765

Cohen's Kappal ' .135 ,

174

Table 82

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Grouping Observer 30 Expert 80 School 801 Grade 2 Week 0 Day 5 WDRSD

Category chosen Cat	Categor	y choi	en by	Obs.	erver	30			Lightis	
by Expert 80	#	1	2	3	4	5	Marginal Totals	Nominal Agreement	Margina! Agreement	Extension of Kappa
		++++++	+++++	++++	· ^ + + + 4	++++	· · · · · · · · · · · · · · · ·			•
Individual	1	+ + 39	.1	0	. 0	1	+ + + + + + + + + + + + + + + + + + +	.951	•953	.761
Polr	5	3	2	0	*3 0	1	*	.333	•500	. 294
Small Group (3-8)	3	+ 0	0	0	0	0	* · · · ·	, et et et et et	## (p. yp. (p.	
Large Group (>8)	4	• 0	0 -	0	0	2	+ 2 +	0.000	•500	019
None of the above	5	• 1 •	0	0	1	3	*	.600	.714	•540
		* * * * * * * *	++++	++++	++++	++++	******	•	•	*λ
Marginal To	tals	+ + 43 +	3	0	1	7	+ + + + + + + + + + + + + + + + + + +			<i>,</i>
	•	* * * * * * * *	****	++++	****	+++++	******			

Category Marginal Agreement: .667

Cohents Kappa: ,508

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Grouping Expert 80 Observer 40 School 801, Grade 2 Week 0 Day 5 WDRSD

		ategory	chos	en by	0b\$e	rver	40. Marginal	Nominal	Marginal	Lightis Extension
Category chosen by Expert 80	Cat,	1	2	· з	4.	5 -/	Totals	Agreement	/greement	of Kappa
	4	*****	++++	, ++++	+++ +	++++	·++++			
Individual	1 4	40	1	0	10	0	+ + 41 +	, ,976	1.000	.899
Pair .	2 4	1	5	0	0	0	+ 6 +	,833	1.000	.813
Small Group (3=8)	3	• 0	0	o /	./	0	+ 0 +	· · · · · · · · · · · · · · · · · · ·		go no en 10 ⁵ 50
Large Group (>8)	4	• 0	0	o (5	0	+ 2 +	1.000	1.000	1.000
None of the above	5	• 0 °	0	/o . `	0	5	+ 5	1.000	1.000	1.000
	4	•				, ,,	• ••••••••••	•	6	
Marginal To	tal*	++++++ + + 41 +	6	0	5	5	+ + 54 +	•	,	0
	,	++++++	*** *	++++	. + + + + +	****	• • • • • • • • • • •	,		

Catagory Marginal Agreement: 1.000

Table 84

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Grouping Observer 10 Expert 80 School 801 Grade 2 Week 0 Day 5

			egory	chos	en by	0bs	arver					Lightis
Category chosen by Expert 80	Cat,	•	1	5	3	4	5		rginal otals	Nominal Agraement	Má: g na Agr#ement	Extension of Kappa
		+++	· + + + +	· + + + +	++++	· • • • • •	} + + + + •	++++	+++++	•		
Individual	1	* *	30	0	0	1	0	*	31 +	• 968	•96≀	, 948
Pali	5	+	0	1	0	0	0	* *	1 +	1.000	1.000	7.000
Small Group (3-8)	3	• •	0	0	4	0	0	÷	4 +	1.000	1,000	1.000
Large Group (>8)	4	+	0	0	0	35	5	⊕ .*•	37 +	. 865	.946	,755
hone of the above	5	+ +	0	0	0	5	3	*	5 +	.600	, 625	,554
		÷++	++++	++++	++++	++++	++++	++++	+++++			
Marginai	Totals	+ +	30	1	4	35	8	+ + +	78			
		+++	< + + + +	++++	++++	++++	++++	++++	++++++			

Category Marginal Agreement: 4908

Cohenia Kappai .836

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Grouping Observer 20 Expert 80 School 801 Grade 2 Week 0 Day 5 DMP

		Catego	Py cho	sen by	0bs	erver		Nominal	Marginal	Light's Extension
Category chosen by Expert 80	Cat (1	5	3	4	5	Marginai Totals	Agreement	Agreement	of Kappa
	·	+++++	+++++	+++++	++++	++++	*******			
Individual	1	+ 30	1	C	0	0	÷ 31	.968	1.000	, 946
Pair	2	+ + 1	0	0	0	0	* * * * * * * * * * * * * * * * * * *	0.000	1.000	. .013
Small Group (3-8)	3	+ + 0	. 0	4	0	0	+ 4	1.000	1.000	1,000
Large Group (>8)	4	+ 0	0	0	35	2	+ 37 +	,946	. 974	,895
None of the above	5	+ • 0	0	0	3	2	+ 5		. 800	,368
		+	*** **	* + + + + +	. + + + +	++++	*	,		
Marginal T	otals	÷ 31	1	4	38	4	+ 78 + + 78 +	•		
		+++++	* * * * * *	+++++	****	* * * * *	+++++++++	•		

Category Marginal Agreement: ,955

Cohen's Kappal .852

152

1.1



Table 86

Reliability on Grouping
Observer 30 Expert 90
School 801 Grade 2
Week 0 Day 5
DMP

Category chosen Cat.		ategory	/ chos	en by	0b s 6	erver,	30 Marginai	Nominal	Marginai	Light's Extension
by Expert 90	#	1	5	3	4 .	5	Totals	Agreement	Agreement	of Kappa
	+	+++++	++++	++++	++++	· + + + ·	*****	• •	,	
Individual	1 +	40	1	0	0	0	+ 41	• •976	,651	.902
Pair	5 + +	16	7	. 0	0	0	+ + 23	• • •304	,435	,210
Small Group (3+8)	3 +	7	2	0	0	0	+ 9	• 0.000	0.000	0.000
Large Group (>8)	+	• 0	0	0	0	3	÷ 3	• 0.000	0,000	0.000
hone of the above	÷ 5 +	. 0	0	0	0	8	+ 8	• 1.000	.727	1,000
	*	· • • • • • • • •		+ + + + +	* * * * *	• • • • •	* * * * * * * * * * * * * * * * * * *	+	4	
, Marginal To	ta : +	63	10	0	0	11	+ 84 +	♦ ♦	•	•
	+	+++++	++++	++++	++++	++++	++++++++	•		

Category Marginal Agreement: .363

Cohenis Kappai .414

Reliability on Grouping Observer 40 Expert 90 School 801 Grade 2 Week 0 Day 5 DMP

		Categor	y chos	en by	0b\$6	rver			Nominal	Marginal	Light's Extension
Category chosen by Expert 90	Cat.	1	2	3	4	5	1	Marginai Totals	Agreement	Agreement	of Kappa
		+++++	+++++	++++	++++	****	++	· • • • • • • • • • • • • • • • • • • •		**	
Individual	1	+ 40	. 0	1	0	0	+	41 +	,976	.661	,907
Palr	5	+ + 15	8	0	0	0	, +	23 +	,348	,391	,270
Small Group (3+8)	3	•	1	1	0	0	+	9 +	.111	. 222	.089
Large Group (>8)	4	•	0	0	. 2	1	*	3 +	.667	,667	,659
	5	*	0	0	0	8	+	8 +	1.000	, i 89	1,000
None of the above	ລ	+					* * * *	*		,	
Marginal '	Totals	62	9	2	5	9	* * * * *	84 +			
		++++++	+++++	++++	++++	++++	+++	+++++++			

Category Marginal Agreement: ,566

Cohenis Kappai .501

150



Table 87

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 2
Week 0 Day 4
WDRSD

Material: Paper/pencil

·.				nory c						wandingi	Lightis Extension
Category chosen by Expert 90	Cat.		1	2	3		rotals		Nomina! Agreement	Marginal Agreement	of Kappa
		++	++++	****	++++	+++	+++++	+++			
Used	1	+	39	0	0	+	39	+	1.000	.929	1.000
	•	•			0	+	15	+	.800	.800	,743
not used	S	+	3	12		+		+			(SS) 457 457 557 554
other	3	+	0	0	0	*	0	+	\$0 AND AND AND \$46		
	•	++	++++	*	++++	+++	++++	* * *			
Marginal Tot	als	* *	42	12	0	* *	54	+			
		+ +	* + + + +	++++	++++	+++	++++	+ + +			

Category Marginal Agreements .864

Cohents Kappal .852

Table 89

Reliability on Materials
Observed 26 Expert 90
School 801 Grade 2
Week 0 Day 4
WDRSD

Material: Paper/pencil

ŝ			Cated by Ob			1					Lightis
Category chosen	Cat.					Ma	ergin	a l	Nominal	Marginal	Extension
by Expert 90	*		1	5	3	•	rotal	\$	Agreement	Agreement	of Kappa
		++	+++++	* * * * *	++++	· + + + ·	++++	+ '+ +			
,		+				•		+			
Used	1	+	37	1	1	•	39	+	.949	.867	,692
		+				•		+			
Not used	2	+	8	5	2	+	15	•	.333	.400	,250
		+				4		+			
other	3	+	0	0	0	+	0	4		0.000	\$100 mars mass \$400 mags
	_	+		-		+	-	•			
		++	+++++	++++	++++1	+++	++++	+++			
		+	1/			+		•			
Marginal Tota	a i s	+	<u>.</u> 45	6	3	+	54	•			
		•	(,,# 	•	•	•	- '				
ı		++			++++4			• • •			
		• •	,					• • •			

Category Marg: nal Agreement: .422

Cohen's Kappal .395

190 .

Table 90

Reliability on Materials
Observer 30 Expert 80
School 801 Grade 2
Week 0 Day 4
WDRSD

Material: Paper/pencil

·	**************************************		ory cl		•			Lightis
Category chosen by Expert 80	Cat.	1	5	3	Marginal Totals	Nominai Agreement	Marginal Agreement	Extension of Kappa
	+	+++++	+ + + + + +	+++++	****	→		. ^.
Used	1 +	46	2	1.	+ 49	+ + •939	•980	,633
Not used	2 +	0	0	0	+ 0	♦ ••••••••••••••••••••••••••••••••••••	0.00	, par sp. en 10 en
other	3 +	4	0	7	+ 11	+ .636 +	.727	.580/
•	*	++++++	++++	+++++	*****	+		
Marginal T	+ otals + +	50	5	· 8	+ 60 ·	◆ ◆		
	+	++++++	++++	+++++	+++++++	+		

category Marginal Agreement: .569

Cohen's Kappa: .605

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Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 40 Expert 80
School 801 Grade 2
Week 0 Day 4
JWDRSD

Material: Paper/pencil ...

, s	·	Cate by 0	gory c bserve	hosen r 40	•	, , , , , , , , , , , , , , , , , , ,	Marginal	Light:s Extension
Catagory chosen by Expert 80	Cat.	1	, 2	3 .	Marginal Totals,	Nominal Agreement	Agreement	
-		++++++	++++	+++++	++++++++			· ' •
Used 🥻	. 1 .	+ + 47	1	1	+ 49 +	.959	.980	.755
Not used	5	+ · · · · · · · · · · · · · · · · · · ·	0	0	+ 0 +	(00 40 ep 40 =	0.00%	000 AND LIAN 4000 and and and
other	3	* * · 3	. 0	8	+ 11 +	.727	.818	.679
<i>√</i>		++++++	++++	+++++	++++++++	•		
Marginal Tot	als	* + 50	1	9	+ 60	• • ·		•
		***	· + + + ·	• + + + + + ·	+ + + + + + + + + +	• • • • • • • • • • • • • • • • • • • •		,
		,						•

category Marginal Agreement: .599

Cohen's Kappai .715

194

Reliability on Materials
Observer 10 Expert 80
School 801 Grade 2
Week 0 Day 4
DMP

Material: Paper/pencil

			sory o	hoser r 40	1	•	٠		•	Lightis
Category chosen by Expert 80	Cat. #	1	5 **	3		argina Totals		Nominal -Agreement	Marginal Agreement	Extension of Kappa
	+	+++++	++++	· + + + + +	+++	* ***+*	++	•		•
Used	1 +	5 7	2	2	+ + /	61	* +	ø934	.967	780
not used .	2 ¥	2	2 '	0	+	4	+	•500	.667	•'462
other	3 +	0	2	17	+	, 19	•	.895	1.000	.864
· ·	+	++'++++	++++	++++	+++	+++++	++			•
Margina! T	otals +	. 59	6	19	+ + +	84	* + + + + + + + + + + + + + + + + + + +	Ÿ		
	. •	+++++	+++++	++++	+++	* + + + + +	++	1	·	

Category Marginal Afreement: .878

Cohen's Kappai .781

Phase IV - IGE Evaluation Project - Descriptive Study - Spring 1978

Reliability on Materials
Observer 20 Expert 80
School 801 Grade 2
Week 0 Day 4
DMP

Material: Paper/pencil

		cated by Ob		hösen r 20	•				, Lightis
Category chosen , by Expert 80	Cat.	1	. 5	3	Marg†na Totals	•	ilnai ement	Marginal Agreement	extension of Kappa'
•		. + + + + + + +	. + + + + +	++++	+++++++	++		6 ·	
Used	1 4	59	1	1	+ + 61	+ j •	967	1.000	880-
Not used	2 4	1	3	0	+ 4	+	750	1.000	.737
other	3 4		0	18	+ 19	· *	947	1.000 "	,932
•	`	, , , ,	++++	+++++	*****	· + +			
Marginal '	Totals	61	4	19	+ + 84 +	\ +			,
	•	, , , , , , , , , , ,	++++	++++	*****	• • •			

Category Marginal Agreement! 1.000

Cohen's Kappa! .886

193

197.

ERIC

Table 94

Phase IV - IGE Evatuation Project Descriptive Study - Spring 1978

Reflability on Materials
Observer 30 Expert 90
School 801 Grade 5
Week 0 Day 4
DMP

Material: Paper/pencil

		<i>d</i> (gory o		1			•	Lightis
	egory chosen Expert 90	Cat.	1		. 3		Marginal Totals	Nominal Agreement	Mardinal Agreement	Extension of Kappa
•	· · · · · · · · · · · · · · · · · · ·	4	+++++	+++++	·++++	++•	+++++++	,	•	•
	Used	1 +	+ 54	0	1	+	55 +	.982	•902	.917
5	Not used ,		• 5	7	3	+	15 +	7.467	.667	.388
	other	3 +	2	3	' 3	+	8 +	.375	.875	- ,313
			, , , , , , , , , ,	++++		+++	* +++++++++			
	, Marginal To	tals 4	61	10	7	+	78 +	· · · · · · · · · · · · · · · · · · ·	ð	**************************************
			, , , , , , , , , , , , , , , , , , , ,	+++++		• + + •	* * + + + + + + +	•		· -

Category Marginal Agreement: .814

Cohen's Kappa: .567

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Materials
Observer 40 Expert 90
School 801 Grade 5
Week 0 Day 4
DMP

Material: ,Paper/pencil

Cat	egory chosen	Cat.		gory c	hosen er 40	Marginal	Nominal	Marginal .	Lightis Extension
	Expert 90	#	1	8	3	Totals	Agreement	Agreement	of Kappa'
7*;	•		++++++	·. • • • • •	• • • • • • •	****	, , , , , , , , , , , , , , , , , , ,	•	
	Used	1	+ ′ + 55	0	9	+ 55 +	1,000	.902	1.000
•	Not used	5	+ + 5	10	0	+ 15 +	.667/	₱ •667	648
	other	3	1	0	7	8 +	.875	.875	.863
1	•		++,++++	++++	++++	++++++++		*	<i>f</i> ,
	Marginal	Ţbtals	+ 61,	10	7	+ 78 +	/ / - /	•	1
	, ,		******	+++++	+++++	· · · · · · · · · · · · ·	/ / /		<i>'</i> e.
	•		· ·				,		•

| Category Marginal Agreement: | .814

Cohen's Kappai .815

292.

ERIC Full Text Provided by ERIC

† Table 96

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 5,
Week 0 Day 5

Material Paper/pencil

	· · · · · · · · · · · · · · · · · · ·		ory ch server			} }	; Marginal	Lightis Extension
Category chosen by Expert 90 \	Cat.	i	2	3	Marginal Totals	Nominal Agreement	Agreement	of Kappa
	•	.+++++	+++++	· + + + +	++++#++ +			~, *
Used	1 4	25	0	2	+ 27, +	,926	•926 · • •	,556
Not used	2 +	. 10	0	0	+ 0 +	10 es es es #	9	************
other		. 0	0	3 .	+ 3 +	1.000	•600	1.000
•	•	· · · · · · · · · · · · · · · · · · · ·	+++++	++++	+++++++++++			
. Marginal T	otais d	25	0 .	5	+ 30 +	. 1	•	, · · ;
	•	; + + + + + + +	• + + • • •	; + + + +	++++++++		١	

category Marginal Agreement: .763,

Cohen's Kappa: .714

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials Observer 20 Expert 90 School 801 Grade 5 Week 0 Day 5 DMP

Material Paper/pencil

÷			ory cl					Lightis
Category chosen by Expert 90	_ Cat.	1	2	3	Marginal Totals	Nominal Agreement	Marginal Agreement	Extension of Kappa
	. · ·	. + + + + + +		++++	*****			-
Used	1	27	° 0	, o	+ 27 +	1.000	1.000	1.000
Not used	5	. 0	0	0	+ 0 +	** ** ** **	.0.000	* ************************************
Other	3	. 0	· 1	2	+ 3 +	.667	.667	, 643
•		. + + + + + + +	· ÷ + + + ·	++++	* ********			,
Marginal	Totals	27	1	2	+ 30 +	es e		**
<i>i</i> :		· • • • • • • • •	++++	++++	******	-		

category Marginal Agreement: .556

Cohen's Kappa: .818

206

Table 98

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Materials
Observer 30 Expert 80
School 801 Grade 5
Week 0; Day 5

Materiali Paper/pencil

Category chosen by Expert 80	Cát.		ory c		Ma	rgina otals		Nominal Agreement	Marginal Agreement	Lightis, Extension of Kappa
		_		. 4 4 4 4	+++4			•	, ,	•
. .		• ·	• • • • • •	* * , * * *	+		•	r		
Used	1	+ 19	4	0	+	23	*	.826	.826	.526
Not used +	, <u>, , , , , , , , , , , , , , , , , , </u>	+ • 0	0	0	+	0	* *	40 cas do 40	0.000	57 to 44 45 to
MOC Gada	(m	•	•	•	•	•	+	e e		*
bther	3	• 0	0	7	14	~ 7	•	<i>(</i> 71.000	1.000	1.000
	e nd ,	+ ++++++	++++			++++	+ ++·	• "	•	•
Marginal 1	rotals	+ 19 \	4	7	+ +	30	+ +		•	
	•	* + + + + + + +	+++++	++++	+++	· + + + + +	++		•	• 0

Category Marginal Agreement: .609

Cohen's Kappa: .710 f

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 40 Expert 80
School 801 Grade 5
Week 0 Day 5,
DMP

Material: Paper/pencil

•			Cated by Ob		choser er 40	1 .			. •		Lightis
	egory chosen Expert 80	Cat.	Ŋ	2	3		argina! Totals		Nominal . Agreement		Extension of Kappa
•	. ,	, (++++++	+++	, + + + +	+++	*** <u>*</u>	++	, ,	٠,	
	Used	r	÷ 23	0	0	, +	53	+	1.000	,958	1.000
	Not used	2	• • 0 ^	.0	70	*	. 0	+	# co eu ep 40	· 40 40 40 40 40	, 60 em 10 em 1 ₀
;	other	3	• 1	. 0	6	• •	7	+	.857	.857	.821
	• •	,	* + + + + + + + + +	++++	++++	* * * *	+++++	+ +			
	Marginal Tot	a \$ '	• • 24 ,	0	6	* *	30	+	,		
		•	+· ++++++	++++	+++++	* * * * * .	+++++	++	j.	٠	
				•			*		:		

Cohen's Kappa: 0,902

Category Marginal Agreement:

Table 100

Reliability on Materials
Observer 10 Expert 90
School 801 The Grade 2
Week 0 Day 5
WDRSD

Material! Paper/pencil

Category chosen	Cat	_		Obser	choser ver 10	Marg		Nominal	Marginal	Light's Extension of Kappa
by Expert 90	₩	· E	् ।	. 2	3	Tota) S	Agreement	Agreement	Of Mappa
, , , , , , , , , , , , , , , , , , ,		4	+++++	+++++	******		. + + + +			~
Used	1	. 4) - () 6	0	+ (, 4 5, 4	0.000	0.000	0.000
Not used	, s	2 4	• • () 45	2	+ + 4*	' 4	.957	, 922	.234
other	3	3	• • (0	1	, , ,		1,000	, 333	1.000
· ·		•	• • • • • • •	+++++	+++++	·,+ + + + + + ·	+++		•	·
Marginal	Totals	;	• • (51	3	+ 5				•
		•	• • • •/• • •	+++++	+++++	*	* * * * *		,	4 >

Category Marginal Agreement: .418

Cohents Kappat .16:

0

Table 101

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials,
Observer 20 Expert 90
School 801 Grade 2
Week 0 Day 5

Material: Paper/pencil

•			ory coserve			Nominal	Marginal	Lightis Extension
by Expert 90 .	Cat.	1	2 .	3	Marginal Totals	Agreement	Agreement	of Kappa
. •	4	; • • • • • • •	<u> </u>	++++	****		•	•
Used	1	• 0	6	0	+ 6 +	0.000	0.000	0,000
Not used	5 +	· 'o	44	3	+ 47 +	. 936	.922	149
other	3 4	. 0	1	. 0	+ 1 + + 0 +	0.000	.333	••059
	۸ ﴿	+++++	+++++	++++	++++++++		. •	•
Marginal To	tals	• 0	51	3	+ 54 +	•		
	,	* *****	++++	* * * * *	*****	i.	,	,

Category Marginal Agreement: .416

Cohen's Kappa: -.047

Reliability on Materials
Observer 30 Expert 80
School 801 Grade 2
Week 0 Day 5
WDRSD

Material: Paper/pencil

	gory chosen Expert 80	Cat.		ory chose server 30 2 3		l Nominal Agraement	Marginal Agreement	Light's Extension of Kappa
	. (**	/ ·++++	++++++	. + + + + + + + + +	••		•
** \ \$00	Used	i /*	41	3 3	+ + 47	+ , .872	,936	,311
·	Not used	2 +	1	1 0	÷ 2	+ ,500	• 500	, 460 %-
	Other	. /3 +	5	0, 3	. + 5	+ +600 /+	.833	. 550
		/ +	+++++	++++++		+		,
	Mardinal	Totals +	44	4 6	+ 54 +	•		•
•		. / ••	+++++	***		++	,	•

category Marginal Agreement: .7.57

. Cohen's Kappal .400

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216

ERIC

Reliability on Materials
Observer 40 Expert 80
School 801 Grade 2
Week 0 Day 5
WDRSD

Material: Paper/pencil

Category chosen by Expert 80	, ca	t.		agory Observ 2	chosen er 40	Mardina Totals		Marginal Agreement	Lightis Extension of Kappa
					1	•			•
•)	•	+++++	*****	+++++	++++++++	* *	, ,	
Used	•	1	+ + 47	0	0	+ 47	+ 1.000	,959	1.000
Not used		5	+ 2 +	· 0	. 0	+ 5.	+ 0.000	0% 000	0.000
other	•	3	+ + · 0	. 0	5 .	+ 5	+ 1.000	1.000	1.000
•		•	* +++++	+++++	++ <i>÷</i> ++	+++++++	* * * * * * * * * * * * * * * * * * *	, G	
(Margina	Total	\$	4 49	0	5	+ 54	*		
			+ + + + + + + + •	+++++	+++++	* ******	*	· · · · · · · · · · · · · · · · · · ·	1 .

Category Marginal Agreement: .653

Cohen's Kappa: .816

213

Table 104

Reliability on Materials
Observer 10 Expert 80
School 801 Grade 2
Week 0 Day 5
DMP

Material: Paper/pencil

			egory (,	Lightis
Category chosen by Expert 80	Cat. #	1	S	3	Margin Total		Nominai Agreement	Marginal Agreement	Extension of Kappa
		+++++	+++++	+++++	*****	+++			
Used	1	+ + 44	1	0	+ 45	+	.978	1.000	.947
Not used	2	• Ç	23	5	+ 28	+	.821	.893	.737
other	3	• 1	1	3	+ 5 +	+	•600	•625	,554
		+++++	*++++	+++++	+++++++	+++			
Marginal T	otals :	+ + 45 +	25	8	+ + 78 +	+ + +			
	•	+++++	++++	++++	*****	+++		·	

Category Marginal Agreementi ,839

Cohen's Kappal .812

Phase IV - IGE Evaluation Project Descriptive Study - Spring: 1978

Reliability on Materials
Observer 20 Expert 80
School 801 Grade 2
Week 0 Day 5

Material: Paper/pencil

,	¥	, –	iory o	hosen r 20		•	•		·-	Lightis
Catagory chosen by Expert 80	: ○ Cat.	1	2	. 3		rgina otals		Nomina! Agreement	Marginal Agreement	Extension of Kappa
	•	. + + + + + +	* * * * * *	++++	* + + +	++++	++			
U sed	1 +	42	3	0 .	+ .	45 °	+ +	,933	, 978	.838
Not used	2 +	1	25	2	+	58 , (* +	.893	1.000	.833
other	3 +	3	, O	2	+	5	+	• 400	.800	,368
	, , •	, ++++++	*	++++	++++	++++	++			,
Marginai	Totals +	46	58	4	+ +	78	+ + +			
•	•	+++++	++++	++++	++++	++++	++			

category Marginal Agreement: .926

Cohen's Kappai .781

222

Table 106

Reliability on Materials
Observer 30 `Expert 90
School 801 Grade 2
Week 0 Day 5
DMP

Material: Paper/pencil

	-			ory coserve							Lightis
Cate	gory chosen	Cat.	•		_		rgina		Nominal	Marginal	Extension
by	Expert 90.	#	1	5	3	1	otals		Agreement	Agreement	of Kappa
U			+++++	++++	· + + + •	+++	*****	++			
	Used	1	+ + 73	0	0	+ +	73	*	1.000	1.000	1.000
No.	Not used	. 5	+	0	3	+	3	+	0.000	0.000	0.000
	other	3	+	0	8	+	8	→	1.000	.727	1.000
	•		* ++++++*	· + + + + ·	++++	* ****	++++	++	•		
	Marginal	Totals	+ + 73 +	0	11	+ +	84	+ + +		. •	
			++++++	++++	++++	+++	+++++	++	ę		

category Marginal Agreement! .576

Cohen's Kappa: .846

Reliability on Materials
Observer 40 Expert 90
School 801 Grade 2
Week 0 Day 5
DMP

Material: Paper/pencil

	gory chosen	Cat.	cated by Ob	ory c serve		Ma	rginal otals		Nominal` Agreement	Marginal Agreement	Light's Extension of Kappa
рA	Expert 90	- #	1	2	3	Ţ	-				•
	٠.	~ •	+++++	++++	++++	++++	+++++	+ +	•		
	Used	+ 1 +	73	.0	0	+	73	+	1.000	1.000	1.000
	Not used	2 + +	0	2	· 1	+	3	+	.667	.667	.659
	other	3 +	0	0	8	+ +	8	+	1.000	.889	1.000
	f	+	, . 		· + + + + +	• • + + + +	++++	++			
•		. •		ſ	•	+		+		,	
	Marginal T	otals +	73	5	9	+	84	+			
, **		•	+++++	****	++++	+++4	++++	++			

Category Marginal Agreement: .852

Cohenis Kappai .949

225

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/ Table .108

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 10 Expert 80
School 801 Grade 2
Week 0 Day 4
DMP

Material: Manipulative

		Cated by Ob		hosen er 40	Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expert 80	Cat.	1	2 .	3	Totals	Agreement	Agreement	of Kappa
	+	+++++	+++/+	<u> </u>	+++++++	ф р		•
U sed v.	1 +	8	1	0	+ 9	+ + •889	1.000	.876
Not used	2 + +	1	53	2	+ + 56	+ .946	1.000	,839
other	+ 3 +	0	5	17	+ 19.	+ + .895	1.000	.864
	+	++++++	++++	+++++	* *******	•		
Margina; To	tal: +	.9	56	19	+ + 84 +	* * * *		
	+	+++++	++++	4 + + + + +	+ < + + + + + + + +	•		•.

category Marginal Agreement: 1.000

Cohen's Kappa: .855

2. . .

230

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials Observer 20 Expert 80 School 801 Grade 2 Day 4 Week 0 DMP

Material: Manipulative

•			gory (chosen er 20	•	•				Lightis
Category chosen by Expert 80	Cat.	- 1	.2	3.	-	argina Total:		Nominal Agreement	Marginal Agreement	extension of Kappa
•	.	+++++	++++	· + + + +	+++	++++	+++			,
Used ~	+ 1 +	6	3	0	4	9	+	.667	.667	.641
Not used	S +	0	55	1	+	56	+	-,982	.949	.940
other	3 +	0	i	.18	+ +	19	+	,947	1.000	,932
	+		++++	+++++	* • + + + •	+++++	+ +++			
	+	* * * * * * *			+		+			
Marginal Tot	als +	. 6	59	19	+	84	4	1		
•	+	•		•	+		*			
	•	* + + + + 	++++	+++++	+++	+++++	+++			

Category Marginal Agreement:

Cohen's Kappa: .874

Table 110

> Reliability on Materials Expert 90 Observer 30 Grade & School 801 Day 4 Week 0 DMP

Material: Manipulative

				aory d bigerve			•			Lightis
	gory chosen Expert 90	Cat.	1	2	` 3	Margina Total:		Agreement	Marginal Agreement	extension of Kappa
		• •	* ****	++++	++++	• • • • • • • • • • • • • • • • • • •	++ <u>}</u>	•		u
•	Used	1	+ 50	3 ,	0	+ 23	/ +	.870	.767	,788
te.	Not used	, 2	+ 10	33	4	+ 47	+	.702	.872	,372
	other	. 3	+ 0	5	3.	+ 8	⊕	.375	.875	,313
		•	+ 1 + + + + + 1 +	*****	+++++	* *****	+++		•	
•	Marginal	Totals	+ + 30	41	7	+ 78	+			
			* *****	++++	+++++	* * * * * * * * * *	+ + +			

category Marginal Agreement:

Table 111

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on materials
Observer 40 Expert 90
School 801 Grade 2
Week 0 Day 4
DMP

Material: Manipulative

Category chosen	Cat.		gory c		Marginal	Nom į na i	Marginal	Lightis Extension
by Expert 90	#	1	S	3	Totals	Agreement	Agreement	of Kappa
k .		+++++	****	++++	++++++++			
used	1	+ 21	5	0	+ 23 +	,913	.561	,817
Not used	5	+ 20	27	0	+ 47 +	•574	.638	,309
other	3	+ + 0	1	7	+ 8 +	. 875	.875	,863
		* +++++	·	++++	++++++++	•		
Marginal		+ + 41 +	30	, 7 ,	+ 78 +	•		
		+++++*	+++++	+++++	++++++++	•		

233

Cohen's Kappa! .512

,691

Category Marginal Agreement:

Table 112

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 5
Week 0 Day 5
DMP

Material: Manipulative

	egory chosen	Cat.	Cated by Ob	serve	hosen r 10	Marginal Totals	Nominai Agreement	Marginal Agreement	Lightis Extension of Kappa
bУ	Expert 90	, ,	1	4	•	, 0, 00, 10			ť
		.	+++++	++++	++++	+++++++++	,	•	
	.Used	+ 1 +	9	. 4	1	+ 14 +	.643	.643	.490
	Not used	2 + 2 +	0	12	1	+ 13 +	.923	.813	,835
,	other	• 3 •	0	0	3	+ 3 +	1.000	.600	1.000
		+	, 	* * * * * * *		* *******	•		<i>r</i>
		•	****	* * * * *		•	•		- N
•	Marginal '	rotals +	9	16	5	+ 30 -	• •		`\ .
		+	+++++	++++	+++++	. + + + + + + + + +	•	,	
1			1		•				

category Marginal Agreement: .685

Cohen's kappa: .673

Table 113

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 5
Week 0 Day 5

Material: Manipulative

,			dory o	hosen r 20	a a			Lightis
Category chosen by Expert 90	Cat.	1	5	3	Marginal Totals	Nominal Agreement	Marginal Agreement	extension of Kappa
	,	+++++	++++	++++	* * * * * * * * * * *	•		•
used \vee	1	13	.1	0	+ 14 +	1929	. 929	.874
Not used	2	• 0	13	0	+ 13 +	1.000	.867	1.000
other	3	• 0	1	2	+ 3 +	.667	.667	.643
		, , , , , , , , , , ,	++++ +	++++	* *****	•		·
Marginal	Totals	13	15	2	+ 30 +	ģ		
	•	++++++	*****	++++	******	٠		

237

Category Marginal Agreement: .821

238

Cohen's Kappa! .884



Table 114

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 2
Week 0 Day 5
WDRSD

Material: Manipulative

Cate	agory chosen	Ca	et.	by 0	gory (bserv	choser er 20	M	argina		Nominal	Marginal	Light's Extension
	Expert 90		#	. 7	2	3	•	Totals	8	Agreement	Agreement	of Kappa
				*****	* * * * *	+++++	+++	++++	+++	•		
	•			*	• • • • •		•		+			
	∪sėd		1	+ 0	0	0	+	0	+	# in m m =	0.000	age task task till vag
				+			*		•			
	Not used	,	2	+ 50	0	3	•	53	+	0.000	0.000	0.000
				+			+		•	0 000	•333	. .059
••,	other	•	3	+ 1	0	0)	/ ₂ 1	+	0.000	•335	
				+			· · · ·	£	. .			
				++++++	****	++++	****	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***			
				+			•		*			
	Marginal	Tota	5	+ 51	0	3	+	54	+			
				+			+		+			
				++++++	++++	++++	+++	++++	+++			

Category Marginal Agreement: .111

Cohen's Kappa: -.001

Table 115

Reliability on Materials
Observer 10 Expert 80
School 801 Grade 2
Week 0 Day 5
DMP

Material: Manipulative

Ochocou abasan	C = 6	b		aory ch		•	Marginal	, Nominal	Marginal	Light's Extension
by Expert 80	Cat.		1	5	3		Totals	Agreement	Agreement	of Kappa
		++++	.+++	+++++	+++	+++	****	+		ŧ
Used	1	+ +	50	.	O	+	23	• • •870	•920	.808
Not used	. 5	+	5	40	5	+	50	.800	•900	.527
other	3	+	0	5	3	▼	5	÷ •600	.625	.554
		* ****	+++	++++	++++	+++	· • • • • • • • • • • • • • • • • • • •	* *		
Marginal Tot	& \$	+ +	25	45	8	+	78	+ + +		4°
		++++	+++	+++++	++++	+ + 4	++++++	+		

241

category Marginal Agreement: .815

242

Cohen's Kappa: .637



Table 116

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 20 Expert 80
School 801 Grade 2
Week 0 Day 5
DMP

Material: Manipulative

			Cate	dory: c	choser	1					
•	•		by 01	bserve	er 20						Lightis
Category chasen	Cat	• '				M	argin	al	Nominal	Marginal	Extension
by Expert 80	#		1	5	3	1	Total	\$	Agreement	Agreement	of Kappa
		+++	++++	+++++	++++	+++	++++	+++	5		•
		+ -				+		+			
Used	1	+	55	1	0	+	23		.957	.821	,932
		+				+		•			
Not used	5	+	6	42	2	+	50	+	.840	.920	.610
		+				+		•			
other	3	+	0	3	2	+	5	•	• 400	.800	.368
		+				+		+			
ŧ		+++	++++	+++++	++++	+++	++++	++			•
·		+				+		+			
Marginai	Totals	+	85	46	4	*	78	+			1
		•				+		•)
.		+++	++++	+++++	++++	+++	++++	+++		. /	/

category Marginal Agreement: .847

Cohen's Kappa: .700

Table 117

Reliability on Materials
Observer 30 Expert 90
School 801 Grade 2
Week 0 Day 5
DMP

Material: Manipulative

	,		gory (chosen er 3,0	Marginal	Nominal	Marginai	Lightis Extension
Category chosen by Expert 90	Cat. #	1	2	3 *	Totals	Agreement	Agreement	of Kappa
•	•	+++++	++++	+++++	+++++++			•
Used	+	41	8	0	+ 49	.837	.878	,666
Not used	2 +		22	3	+ 27	. 815	. 9.00	.712
other	.3 +	0	0	8	+ 8 +	1.000	.727	1.000
•	+	+++++	· +	+++++	+ ++++++++	,		ak b
Marginal	Totals +	43	30	11	+ 84		K'5	
	• · · · • • • • • • • • • • • • • • • •	· • + + + + + +	++++	+++++	* ++++++++			

Category Marginal Agreement: .835

Cohen's Kappa: .730

245

Table 118

Reliability on Materials
Observer 40 Expert 90
School 601 Grade 2
Week 0 Day 5
DMP

Material: Manipulative

Catagory shagan	Cat.		ory c serve			srginä	i 1	Nominal	Marginal	Light's Extension
Category chosen by Expert 90	#	1	5	3	1	otals	i	Agreement	Agreement	of Kappa
	•			++++	+++	*****	++			
Used	1		8	0	*	49	+	.837	.898	.657
Not used	2 4	•	23	1	+	27	+	.852	.871	.765
other	3 .	→ → 0	0	8	+	8	+	1.000	.889	1.000
	•	• • • • • • • • •	+++++	++++	+ ++++	++++	+++	r		
Marginal T	otals ·	+ + 44	31	9	+ +	84	+			
•	,	* + + + * + * + *	*****	++++	+++	* * * * * *	+++			

Category Marginal Agreement: .886

Cohenis Kappai .747

Table 119

Reliability on Materials
Observer 10 Expert 90
School 601 Grade 2
Week 0 Day 5
WDRSD

Material: Game

Category chosen by Expert 90	Cat.	Cated by Ob			Marginal Totals	Nominal Agreement	Margina/i Agreement	Lightis Extension of Kappa
4	•	+++++	++++	++++	+++++++	•	<i>,</i>	
Used	1 +	51	0	2	+ + 53	+ + •962 +	.962	,321
Not used	2 + +	0	0	0	• 0	+ • • • • • • • • • • • • • • • • • • •	(40 MB em 400 MA	*****
other	3 +	0	0	1	+ 1 +	+ 1.000	.333	1.000
	+	+++++	++++	++++	*****	•		
Marginal T	otals +	51	0	3	+ + 54 +	+ + + +	1	
	•	· • + + + + + + +	++++	++++	+++++++	•	. •	

category Margina! Agreement: .644

ohen's Kappal .486 .

250

Table 120

Reilability on Materials
Observer 20 Expert 90
School 801 Grade 2
Week 0 Day 5
WDRSD

Material: Game

					ory o	hosen er 20						Lightis
	egory chosen Expert 90	Cat		1	s	3		argina Total:		Nominal Agreement	Marginal Agreement	extension of Kappa
			· +	+++++	++++	++++	+++	++++	+++	•		
	i vo o al	,	+ +	0	50	3	+	53	+	0.000	0.000	0,000
	Used	•	⊾ , ▼ +	, •	•	•	+		+			
	Not used	• 6	? +	0	0	0	+	0	+	160 th qu ep 160	0.000	100 400 400 400 400 400 400 400 400 400
	other	,	3 +	. 0	1	0	÷	1	÷	0.000	.333	∞ • 059
			+	· · + + + + + + :	* + + + + + *	+++++	+++	+++++	+++			
			•	,			+		+			
	Marginal	Total	\$ +	0	51	3	+	54	+		,	
ı			4	•			*		+			
			4	+++++	+++++	++++	+++	++++	+++			

Category Marginal Agreement: .111

Cohen's Kappa: =.001

254

Table 121

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 30 Expert 90
School 801 Grade 2
Week 0 Day 5
DMP

Material: Game

				ory coserve	hosen r 30				Magglasi	Lightis
Category chosen by Expert 90	Cat.		1	S	3		tals	Nominal Agreement	Marginal _ Agreement	extension of Kappa
•		+++	+++4	++++	++++	++++	+++++	•		
Used	1	+	0	0	3	+	3	+ 0.000	0.000	0,000
Not used	5	+	0	73	0	+	73	+ 1.000	1.000	. 1,000
Other	3	+	0	0	8	+	8 .	+ + 1.000	,727	1,000
		++++	 .	k+÷÷+4	++++	+ ++++	++++	+ +	•	
Margina! T	uta!\$	+ + +	0	73	11	+	84	+ +		
		+ +++•	++++	++++	++++	++++	+++++	+ +		

Category Marginal Agreement: .576

Cohen's Kappal .846

Table 122

Reilability on Materials
Observer 40 Expert 90
School 801 Grade 2
Week 0 Day 5
DMP

Material: Game

		b		ory coserve				Nominal .	Marginal	Lightis Extension
Category chosen by Expert 90	Cat.		1	5	3	`	Marginal Totals	Agreement	Agreement	of Kappa
		++++	++++	++++	++++	++	+ + + + +,+ + + + +			
Used	1	+ +	0	2	1		÷ 3 •	0.000	0.000	0.000
Not used	2	+	Q	73	, 0		+ + 73	1.000	.973	1.000
other	3	+	0	0	8		+ 8	1.000	.889	1,000
		++++	+++,	++++	++++	++	* ++++++++	•		
Marginal Tot	a \$	+ .	0	75	9		+ 84		•	
		++++	* * * * ·	+++++	++++	++	*	• •	,	

Category Marginal Agreement: 621

Cohenis Kappai .833

255

256

253

Table 123

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 30 Expert 90
School 801 Grade 2
Week 0 Day 5
DMP

Material: Audio/visual ald

Category chosen	Cat.	b		ory ch server			arginal	l	Nominal	Marginal	Light's Extension
by Expert 90	#		1	2	3		Totals		Agreement	Agreement	of Kappa
	1	++++	++++	+++++	+++	+++	+++++	++		•	
Used	1	+	0	1	0	+	1	+	0.000	0.000	0.000
Not used	5	+	0	72	3	+ + +	75	+	.960	•973	,695
other	3	+	0	0	8	+	8	÷	1.000	.727	1.000
		++++	+++	+++++	· * + + •	· • + + +	* + + + + + *	• •			
Marginal Tot	tals	*	0	73	11	+	84	+			
		++++	++++	+++++	+++	+++	*****	++			

category Marginal Agreement: .567

Cohen's Kappa! .775



Table 124

Reliability on Materials
Observer 4-0 Expert 90
School 801 Grave 2
Week 0 Day 5
DMP

Material: Audio/visual aid

•		Cate by 0	gory c bserve	hosen r 10	Marginal	Nominal	Marginal	Light's
Category chosen by Expert 90	Cat. #	1	5	3	Totals	Agreement	Agreement	of Kappa
•		+++++	++++4	+++4	*******		,	•
	1	+ + 0	1	0	+ 1 +	0.000	0.000	0.000
Used	•	+	74	1	+ '75	. 987	1.000	,876
Not used	2	+ ∪	7 -4	•	•	•	.889	1.000
other	3	+ 0	0	8	+ 8	1.000	• 00 %	
•		+		++++	· + + + + + + + + + + + + + + + + + + +	•	•	`•
		+			•			
Marginal	Totals	+ 0	75	9	÷ 84	.		•
		+++++	* + 	++++	+++++++++	•		•

Category Marginal Agreement: .630

Cohen's Kappa: .876

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 2
Week 0 Day 4
WDRSD

Material! Printed material

				gory c bserve							Lightis
Category chosen (at.					M	ergin	a I	Nominal	Marginal	Extension
by Expert 90	#		1	5	3		Total		Agreement	Agreement	of Kappa
		+++	++++	+++++	++++	+++	++++	+++	•		
		+				+		+			
Used	1	+	21	4	0	•	25	+	.840	•920	.721
• •		+				+		+			
Not used	2	•	2	27	0	+	29	+	.931	_c 935	.838
110,0 000	_	•			•	•		+	• • • •	·	·
other	3	+	0	0	0	•	0	+	40 to ₁₀₀ as to	40 W 40 W 10	WF 944 000 400
•		*				+		•			
		+++	++++	+++++	++++	+++	++++	+++			
		+				•		+			
Marginal Tota	t I S	•	23	31	0	+	54	+			
may writing rote	., •	•		••	J	•		•			
·		· • • • ·	++++	+++++	++++	+++	++++	+++			
			• • •		• • • • •		• • •				

category Marginal Agreement: .928

Cohen's Kappal .775

252

Table 126

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reilability on Materials
Observer 20 Expert 90
School 801 Grade 2
Week 0 Day 4
WDRSD

Material: Printed material

								,		
			gory c		1					Lightis
Category chosen	cat.				M	argina	9 (Nominal	Marginal	Extension
by Expert 90	#	1	5	3		Totals		Agreement	Agreement	of Kappa
	+	+++++	4 + + + +	++++	+++	++++	+++		•	
	•				÷		+			
Used	1 +	16	ê	1	+	25	٨	,640	•880	392
	+				4		+			
Not used	5 +	6	21	5	+	29	+	.724	1.000	.404
140 € \$380		_		_	4		•			
AAI a	•	^	0	0	•	0	·	e	0.000	
other	3. •	0	U	V	.	V				
:	+				+		•		·	
	•	+++++	+++++	++++	+++	++++	+++			
	•				+		•			
Marginal To	tals +	55	29	3	+	54	+			•
mar spriar vo	•				+		+			
	· ·									
	•	****	****		, , , ,	****	* * *			
				/						
				/						

Category Marginal Agreement: .623

Cohen's Kappai .398

Table 127

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 30 Expert 80
School 801 Grade 2
Week 0 Day 4
WDRSD

Material: Printed material

Category chosen by Expert 80	Cat.		ory coserve		Marginal Totals	Nomina! Agreement	Marginai Agreement	Light's Extension of Kappa
:	•	+++++	++++	++++	+++++++++			
Used	1	+ 0	. 0	0	+ 0 +	(2) de de de de	0.000	****
		+	44	,	+ 49 +	. 898	.980	.490
Not used	5	+	~~		+ +		.727	.580
other	3	+ 0	4	7	+ 11 +	. 636	• • • • • • • • • • • • • • • • • • • •	·
		* ******	++++	++++	****	•		
Marginal To	otals	+ + 4	48	8	÷ 60	, ,		,
		++++++	++++	++++	· • • • • • • • • • • • • • • • • • • •	•		

category Marginal Agreement: .569

Cohen's Kappai .534





Table 128

Reliability on Materials
Observer 40 Expert 80
School 801 Grade 2
Week 0 Day 4
WDRSD

Material! Printed material

			egory Observ							Lightis
Category chosen (Cat.				M	argina	9 l	Nominal	Marginal	Extension
by Expert 80	#	1	. 2	3		Totals		Agreement	Agreement	of Kappa
•		+++++	* * * * * *	+++++	++++	+++++	+++			
		+			+		+			
Used	1	+ 0	0	0	+	0	+	****	0.000,	60° cm ep ton up
		+			+		+			
Not used	5	+ 12	36	1	+	49	+	.735	•796	.242
		+			+		× +	•	•	
other	3	+ 0	3	В	+	11	+	.727	.818	,679
		+			+	1	4			
		+++++	+++++	+++++	+++	+++++	+++			•
		+			+				•	
Marginal Tota	9 8	+ 12	39	9	+	60	•			
	- , -	+			+		+			
		+++ ++	++++	· + + + + +	++++	+++++	+++			

Catagory Marginal Agreement: 538

Cohen's Kappa: .396

Reliability on Materials
Observer /O Expert 80
School 801 Grade 2
Week 0 Day 4
DMP

Material: Printed material

	*	by Observer 40					da 1 5 5 1	Nominal	' Marginal	Light's Extension
Category chosen by Expert 80	Cat.		1	s	3		dinai tals	<u> </u>	Agreement	of Kappa
,		++	++++	++++	+++++	+++	++++	+ 4		<i>(</i>
Used	1	++	0	0	0	+ 1 +	0	+ *******	0.000	,
Not used	Š	+	1	62,	5	+	65	+ .954	•985	.806
other	3	+	0	2	17	+	19	+ .895	1.000	,864
		++	++++	++++	+++++	++++	++++	++		,
margina! To	tals	+ +	1	64	19	+ + +	84	+ + +	\	
		++	++++	++++	+++++	++++	++++	+ +		
									2	71)

category Marginal Agreement: .662

Cohen's Kappa: .834

Table 130

Reliability on Materials Observer 10 Expert 90 School 801 Grade 5 Day 5 Week 0 DMP

Material: Printed material

				gory c		1					Lightis
Category chosen	Cat.	•				M	argin	al	Nominal	Marginal	Extension
by Expert 90	#		1	٤	3		Total	\$	Agreement	Agreement	of Kappa
		+++	++++	++++	++++	+++	*** *	+++			
		+				+		+			
Used	1	+	0	0	0	+	0	+		0.000	
		\				•		+			•
Not used	5	+	3	55	2	+	27	+	.815	.815	.306
		+				+		+	•	~	•
other	3	+	0	0	3	+	3	+	1.000	.600	1.000
• • •	_	•	•	•		•	i	•			
		+++									
		•	• • • • •		• • • • •		7	• • •			
Margiral To		<u>.</u>	3	55	5	*	130	•			
MET ALL ST	(019	_	•	c 2	IJ	· ·	/ 30	+			
		+++	+ + + +	++++	++++	+++	+++++	+++			

category Marginal Ag. eement: .472

Cohen's Kappai .485

Table 131

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 5
Week 0 Day 5
DMP

Material: Printed material

	•	Cate	gory o	hosen	/	,				
			bserve		./				•	Lightis
Category chosen	. Cat.	• ,	_ ,		- √ Ma	rgina	s i	Nominal	Marginal	Extension
by Expert 90	*	1	5	3	:	otals		Agreement	Agreement	of Kappa
		+++++	+++++	++++/+	.++++	++++	+++			,
Used	1	+ • 0 ·	0	0	• •	0	**************************************		0.000	mp (gr 30 (ff) Cp.
<u>-</u>		+			+		. +			•
Not used	2 ·	1	26	0	+	27 y	+	,963	1.000	.630
		.		_	+	_	+		448	
Other	3 •	• 0	1	2	+	3	+	.667	.667	.643
	•	•			+		+			
	•	+++++	++++++	++++	+++'4	++++	+++			
	•	6		٠,	. 💠		+			
Margina! T	otals	1	27	, 5	+	30	•			
		4			+		•			
	•	++++++	+++++	++++	+++	++++	+++		ı.	
					,					

category: Marginal Agreement: .556

Cohen's Kappai .636

274

Table 132

Reliability on Materials
Observer 30 Expert 80
School 801 Grade 5
Week 0 Day 5
DMP

Material: Printed material

	_			gory o			·				Lishtis
Category chosen	Cat	•		_			argin		Nominal	Marginal	Extension
by Expert 80	#		1	5	3		Total	\$	Agreement	Agreement	of Kanpa
		++	* * * * *	* * * * * 4	++++	+++	* + * + + ·	+			
		+				•		•			•
Used	1	+	0	0	0	+	0	+		0.000	640 mm mar 450 mm
		•				•		+			
Not used	5	•	8	15	0	+	23	4	, 652	.652	.304
		•				+		+			• • • •
Other	3	•	0	0	7	+	7	+	1.000	1.000	1.000
		•				•		+			
		++	++++	+++++	++++	+++	++++	+++			
		+				+		+			
Marginal To	otals	+	8	15	7	+	30	+			
		+				•		+			
		++	++++	++++	++++	+++	++++	++			

Category Marginal Agreement: #551

Cohen's Kappa: .526



Table 133

Reliability on Materials
Observer 40 Expert 80
School 801 Grade 5
Week 0 Day 5
DMP

Material: Printed material

Category chosen by Expert 60	Cat.		ory coserve		Marginal Totals	Nominal Agreement	Marginal Agreement	Lightis Extension of Kappa
	•	. + + + + + +	+++++	++++	* * * * * * * * * * *	,		
Used	1 +	• 0	0	0	+ + + +		0.000	400 ton ton the up
Not used	2 +	3	8 0	0	+ 23 +	. 870	.913	,565
other	3 (1	6	+ 7 +		.857	.821
-	•	,	••••	· + + + + +	+ + + + + + + + + + + + + + + + + + +	•		
Marginal	Totals 4	3	21	6	+ 30 +	, ,		
	•	*****	+++++	++++	++++++++	,		
								273

Category Marginal Agreement! .590

Cohen's Kappal .680

ERIC

Table 134

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 2
Week 0 Day 5
WDRSD

Material: Printed material

		Category chosen by Observer 20								Light:
Category chosen by Expert 90	Cat.	1	5	3		argin Total		Nominal Agraement	Marginal Agreement	Extension of Kappa
	++	+++++	++++	++++	+++	++++	+++			
U≪ed	1 +	0	0	0	+ +	0	+	age one day with with	0.000	date user days date and
Not Usea	+ 5 + +	50	0	3	+	53	+	0.000	0.000	0.000
Other	3 +	1	0	0	÷	1	* + +	0.000	.333	~, 059
	++	+++++	++ ++	++++	+++	++++	+++			
Marginal 1	* "otals + +	51	0	3	+ + +	54	+ + + +			
	++	* + + + + +	++++	++++	+++	++++	+++			

Category Marginal Agreement: .111

Cohenia Kappai -. 001

 $\bigcap_{i,j} C_{ij} \left(\right)$

17. 63

Table 135

.Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 30 Expert 80
School 801 Grade 2
Week 0 Day 5
WDRSD

Material: Printed material

			gory c pserve		Marginal	Nominal	Marginal	Lightis
Catagory chosen by Expert 80	Cat. #	1	5	3	Totals	Agreement	Agreement	of Kappa *
	4	+++++	+++++	++++	+++++++++	•		
Used	1	16	4	0	+ 50	.800	.850	.708
Not used	2	+ + 1	25	3	+ 55 +	.862	.935	,676
other	3 .	♦ 0	ટ	3	+ 5	.600	.833	,550
	•	* + + + + + + + +	+++++	++++		• •		
Mara nail To	otal*	+ + 17 +	31	6	+ 54 + 54	+ +		
		+++++	+++++	++++	· • • • • • • • • • • • • • • • • • • •	+		

Category Marginal Agreement: .873

Cohenia Kappai ,672



Table 136

Reliability on Materials
Observer 40 Expert 80
School 801 Grade 2
Week 0 Day 5
WDRSD

Material: Printed material

Catagony choson	0.00		gory observe			ergina	n i	Nominal	Marginal	L ghtis Extension
Category chosen by Expert 80	Cat.	1	2	3		Total		Agreement	Agreement	of Kappa
			. + + + + +							
		* * * * * * * * * * * * * * * * * * *	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	, , , , , ,	•	* * * * * *	* * *			
Used	1		0	0	+	20	+	1.000	.952	1,000
Not used	2	+ + 1	85	0	+ +	29	+	•966	,966	,928
		+			•		*			
other	3 ·	+ 0	o	5	+	5	*	1.000	1.000	1.000
		* ******			· + + +		· + +			
		•	****	,	• • • · ·	. , . , .	•			
Marginal T	otals	+ 51	88	5	+	54	+			
	•	+ + + + + + + +	. + + + + + •	++++	+++	++++	+++			

category Marginal Agreement: .973

Cohen's Kappal .967

Table 137

Reliability on Learner Moves
Observer 10 Expert 90
School 801 Grade 2
Week 0 Day 4
WDRSD

		Cat	egory	chos	an by	0bs•	rver	10	Marginel	Nominal	Marginal	Light's Extension
Cutacory chosen by Expert 90	Cat.	1	5	3	4	5	6	7	Totals	Agreement	Agreement	of Kappa
	+	******	÷ • • • •	-	****	****			. 11	. 273	.545	. 162
Engaged - written	1 +	•	4	5	ı	0	1	0	2	0.000	.286	-,149
Engaged - oral	2 4	,	0	5 2	0	1	a a	0	• • 15	• • 400	, 882	, 124
Engaged - covert	3 (3	0	0	4		1	Ó	+ 6	, 567	.857	.617
Not angaged - inter!	•	. 0	1	6	1	3	1	0	+ 75 +	,250	. 500	, 156
Not engaged - off tes	•	• 0	0	1	0	1	6	0	÷ 0	.750	.727	, 686
hone of the above	7	• • 0	o	0	0	0	0	0	• 0	* + ****** *	Class dear dada may wide	Quy case lead 164 MRF
		• • • • • • • •	• • • • •	+ + + + *	****	****	****	• • • • •	*******	+		
Marginal Tr	te!#	• 6	7	17	7	6	11	0	• 54	.		
		~ •••••	****	****	++++	****	* * * * *	• • • • • ·	*******	•		

Category Marginal Agreement: .633

Cohenia Kappel (274



Table 138

Phose IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Learner Moves
Observer 20 Expert 90
School 801 Grade 2
Week 0 Day 4
WDRSD

		Cat	- 90ry	chos	en by	0bs=	rver a	20	Marginai	Nominal	Marginal	Light's Extension
Category chosen by Expart 90	Cat.	1	2	3	4	5	6	7	Totals	Agreement	Agreement	of Kappa
	**	*****	++++4	****	****	****	*****	****	++++++++	• ,		
Engaged - written	1, +	7	2	5	0	0	0	0	÷ 11	• • ,636	1.000	,543
Engaged - oral	s +	0	ī	1	0	0	9	0	• 2	• •500	. 333	,437
Engaged - covert	* 3 *	5	1	10	0	0	1	1	15	• ,667	,833	,500
Not angaged = interi	m 4 +	1	0	0	3	1	1	0	6	.500	,833	,449
Not angaged - waiting	+	0	2	4	1	0	3	5	15	• 0.000	.083	019
Not engaged woff ter	ik 6 +	1	0	1	1	0	5 ,	0	6	625	.800	.540
None of the above	7 •	0	0	0	0	0	0	0	• 0	ф :###### ф	0.000	*******
	•	****		****	****	• • • • •	* * * * * *	****	******	•		
Harginal To	tals •	11	6	18	5	1	10	3	+ + 54 +	• •		
	• •	****	• + • • •	++++	****	++++	· · · · ·	++++	******	•		

Cetegory Harginal Agreement: .555
Cohenis Kappe: .368

Table 139

Reliability on Learner Moves
Observer 30 Expert 80'
School 801 Grade 2
Week 0 Day 4
HDRSD

•		Cate	gory	chos	en by	0bsq	rver	30	Marginal	Nominal	Marginal	Light's Extension
Category chosen . by Expert 80	cat,	1	a	3	4	5	6	7	Totals	Agreement	Agreement	of Kappa
				****	44++4	****	****	****	******	•		
	•	8	9	1	0	0	0		• • 9 1	• .88¢	1.000	,869
Engaged + written		,	2	0	0	0	0	0	• 2	+ 1.000	,333	1.000
Engaged = oral	2 , 4 4	• 0	_	•	',	0	5	0	+ 21	+ + .667	.810	,535
Engaged - covert	3 4	1	3	14				0	. 2	+ .506	.500	,464
Not engaged - Interi	m 4 f	0 %	0	0	1	1	0	-	• 6	÷ .033	.857	,811
not enbaged = waltin	a 5 (• O	0	0	0	5	1	0	•	+ ,667	1.000	.608
Not engaged woff tem	k 6	• 0	. 1	0	1	n	6	1	•	•	.727	,580
None of the above	7	• 0	0	5	1	1	0	7	• 11 •	+ ,636	0 1 65 1	V
	·	• 		****	****	+++++	++++	· + + + +	+++++++	• •		
Marginal To	tels	÷ 9	6	17	4	7	9	8	+ + 60 +	• •		
, eq.		-	****	****	* * * * *	****	****	++++	******	• •		

Category Marginal Agreement: .747

Cohente Kappe: .658



Table 140

Reliability on Learnar Moves
Observer 40 Expert 80
School 801 Grade 2
Week .0 Day 4
WDRSD

		Cat	9 907)	/ chos	en by	0584	rver	40	Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expert 80	Cat.	1	2	3	4	5	6	7	Totals	Agresment	Agreement	Of Kappa
Z _e	•	****	***		****	++++	++++	****	*****	•		
Engaged - Written	1 +		0	1	0	0	0	0	+ 9	. 689	.900	, 267
Engaged - oral	5 +	. 0	1	1	0	o '	0	0	÷ 2	.500	.500	.464
Engaged - covert	3 +	1	3	17	0	C	0	`o	+ 21	.810	.913	,691
Not engaged - Inter!	+ m 4 +	0	0	1	3		Ð	0	+ 5	,500	.500	. 472
Not engaged - waitin	4	0	0	0	0	4	2	o	+ 6	,667	833	.636
Not engaged moff tos	•	Û	0	1	0	1	6	1	+ 9	,667	,889	
None of the above	7	1	C	5	0	0	0	8	+ 11	,727	,518	.479
	4	•		****	*****	• • • • •	****	****	* *********	•		j
Marginal To	tal*	10	4	23	1	5	6	9	+ + 60 +	•		
	•	- + + + + + + + + +	• • • • •	+++++	****	* * * * *	++++	****	*****	• \		

Category Marginal Adresment: "765

Coments Kappal .680



Table 141

Reliability on Learner Moves
Observer-/O Expert 80
School 801 Grade 2
Week 0 Day 4

خ ن									••	•	. A	L & Ca
•		Cat	egory	chos	en by	0b :	rver	40		Neminal	Marginal	Light's. Extension
Category chosen by Expert 80	Cat.	1	5	3	4	5	6	7	Marginal Totals	Nomina! Agreement	Agreement	of Kapsa
			• • • • •		++++	****	****	++4+	*******		•	•
Engaged - Written	1 •	3	0	5	1	1	. 0	0	• 10 •	.300°	,500	256
Engaged - oral	2 4	1	1	1	0,	0	0	. 0	3 ,	, 333	.375	. 263
Éngagéd - covert	3 1	0	5	17	1	, 6	1	0	30	•567	. 823	.383
Not engaged - integ	im: 4	.0	1	0	1	0	1	0	. 3	, 333	1.000	··· 🚜 0 9 °
Not engaged - waitin	ng 5 4	0	Ö	5	o´	9	1	O	12	.750	.667	,682
Not engaged -off ta	K 6	1	1	0	0	1	2 ,	2	* 7	-• 286 ·	. 857	, ,231
None of the above	7	0	0 -	0	0	1	1	17	+ 19	, 695	1.000	, 064
N.	•	*****	****	****	****	****	****	****	*******	•		
Marginal To	otals 3	5	8	25	3	16 '	6	19	64			, ,
•		*****		****	****	***	****	• • • • • •	******	•	ċ	

category Marginal Agraement: .747

Cohenis Kappal 239

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Table 142

Reliability on Learner Moves
Observer 20 Expert 60
School 801 Grade 2
Week 0 Day 4
DMP

Catacany abasan	0.1	Cat	egory	chos	en by	0b.se	rver'	20	Margina,	Nominal	Manalani	Light's Extension
by Expert 80	Cat.	1	. 2	3	4	5	6	7	Totals	Agreement	Marginal Agreement	of Kappa
	***	****	****	****	* ,* * * *	****	****	****	******	,	f . • •	,-
Engaged - written	1 +	9	0	0	. 0 .	1	0	0	10	•900	.588	.875
Engaged - oral	2 0	1	1	0	0 1	1	0	0		,333	,429 ·	,273)
Engaged - covert	3 +	3	6	14	. 1	1	5	0	30	.467	500م _	, 351
Not engaged - interi	m 4	0	0	0	\$	0	1	0	3	,667	♦ 600	,646
Not engaged - waitin	g 5 +	3	0	1	1	4	3	0	12	, 333	,583	,273 ->
Not engaged woff tax	k 6 +	1	Ô	0	, 0	0	5	1	7	714	.500	,657
None of the above	7	. 0	0	. 0	1	0	0	18	19	.947	1.000	, 932
·	***	****	****	****	****	****	****	++++	••••••	•		
Marginal To	tals +	17	7	15	5	7	14	19	. 84	, 10	·	•
	***	****	****	****	****	****	****	* * * * * ·	• • • • • • ,• • • • •			•

Category Marginal Agreement: .600'

Cohente Kappe: .555

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Table 143

Reliability on Learner Moves
Observer 30 Expert 90
School 80) Grade 2
Week 0 Day 4

,		Cat	egory	chos	en by	0bs	rver	30	Marginal	Nominai	Marginal	Light's Extension
Category chosen by Expert 90	cat.	1	2	' 3	•	5	6	7 °.	Totals	Agreement	Agreement	of Kappa
	•	*****	· • • • • • - 0	****	0	0	••••	1	14	.714	.675	,641
Engaged - Written Engaged - Oral	2 * 2 *	10	5	1	0		• • 0 •	, 0	÷ 3	,667	,375	. 629
Engaged - covert	3 +		3	16	0	0	11	0	÷ 25	.640	962	.460.
Not shakaded w Interio	 ♦ 4 •.	0	. 1.	1	10	0	0	0	÷ 75	. 833	.750	,790 .132
Not engaged - waitin	<i>'</i>	0	0	3	0	1	1	2	• 7	14G	,143	.063
Not engaged moff tes	k +6 4 7 4	. 1	1	0	· 2	0	0	3	•	375	.879	7,313
None of the above	,	*****	****	••••	*****	****	****	*****	******	• •	•	
Marginei To	tals	16	, 8	26	16	1	4	7	78	•	• .	
	•		****	****	****	• • • • •	****	*****	****	• •		

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Table 144

Phase IV - IGE Evaluation Project Descriptive Study - Specific 25

Reliability on Learner Moves
Observer 40 Expert 90
School 801 a Grade 2
Week 0 Day 4
DMP

•	,	Ce	tegory	chos	en 'pa	0bs4	rver	40	Name (a.a.)	,	Manglasi	Light's Extension
Category chosen by Expert 90	Cat.	. 1) 2	3	4	5	6	7	Margina) Totals	Nomina; Agreement	Margina! Agraement	of Kappa
-•	4	*****	*****	****	****	****	****	****	******		1	. • (
Engaged - written	-1 4	12	0	2	0	0	0	0	14	.857	- ,824	.617
Engaged - oral	/ 2M	^ 0	2	1	, o	0	0	. 0	3	.667	.500	,639
Engaged - covert	3 4	4	1 ,	19	1	. 0	0	0	25	,760	.862	.618
Not engaged - Interi	m'.4 4	1	'. 1	1	9	0	0 '	0	12	^ •750	1.000	,705
Not engaged - waitin	g 5 (0	0	3	1	2	1	0	• 7	.286	. 266	₄ 267
Not engaged -off tes	k 6	0	1	3	1	0	• • ,	0	• 9 M	.444	,556	.406
None of the above	7 (• 0	1	0.	0 📏	0		7	• 6	.675	.675	,863
•	•) }	*****	****	****	** **	••	****	*******	' '		
Margine: To	eles	17	6	29	1/2	2	5	7	78	, ,	₹.	
,	•	, ,,,,,,,,,	*****	***,**	****	****	• • • • •	++++	•			
Not engaged - walting Not engaged -off test None of the above	g 5 4	0	1 0 1 1	3	1 0	0	0	0	+ 7 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4	.286	, 266 , 556	,267 ,406

category Marginal Agreement) .700

BEST CONTROLLE

Table ,145

Rejiability on Learner Moves
Observer 10 Expert 90
School 801 Grade 5
Week 0 Day 5
DMP

Category chosen Ca by Expert 90	cot.	C	etegor	y chos	en by	0b s (erver(10	^Marginal	Nominal Agreement	Marginei Agreement	Light's Extension of Kappa
	*	1	2	3	• ,			•	. , , , , , , , , , , , , , , , , , , ,	•		*
•	4	****	*****	****** -	****		******	****	+ + 11	273	.636	.051
Engaged - written	1 4	3	, 0	5	•	, 0	٠.	•	• 0	,	0.000	
Engagad - ora!	2 4	0	0	0	·O	0	. 0	0	•	, , , , , , , , , , , , , , , , , , , ,	•	,206
Engaged - covert	3	3	1	4	0 ,	0	0	1	+ 9	,444	1.000	,200
Not engaged - interim	- 4	0	_0	0	. 0	0	0	0	+ 0	******	0.000	
Not engaged = waitihg		≱. •∍ 0	0	0	0	, 2	0	0	ž 2	1.000	1.000	1.000
	•	•	. 0	0	0	. 0	. 4	0	• 5, ·	.800	1.000	760
None of the above	7	• . 0	0	· 0 *	. 0	0	0	3	•	. 1.000	.600	1,000
•	•	• •••••	*****	***		****	****	****	• • • • • • • • • • •	•		
Marginal Tot		• • 7	1	9 ′	. 1	2	5 "	5	30	,	•	,
		*		****	****	+ + + + +	****	• • • • •	******	•		•

Category Marginel Agreements ...605

Cohenis Kappal .398

Table 146

Reliability on Learner Moves
Observer 20 Expert 90
School 801 Grade 5
Week 0 Day 5
DMP

			Cat	egory	chos	en b'y	Oþse	rver	2 0 .	Marginei	Nomi ne i	Marginal	Light's Extension
Category chosen by Expart 90	'CAT	• ,	1.	2	3	4	5	6	7	Totals	Agreement	Agreement	_
Engaged - Written	1	•••• • •	9	0	5	0	0	0	0	• • 11	.81,5 ^	,647	,580
Engaged - oral	2	• (0	0	Q=	0	0	0	0	• 0		0.000	
Engaged - covert, .	3	+ . +	6	1	1	0 "	ì	0	0	9	,111	6444	026
Not engaged - interi	m 4	+ + ,,	0	0	0 .	0.	. 0	0	0	• 0		*************************************	
Not engaged - waitin	g 5	*	0	0	0	0	, s	0	0	2	1.000	.500	1,000
Not engaged -off tes	k 6	+	. 5	0	1	0	, O	5	0	5	.400	400	,357
None of the above	′ 7	• •	0	0	0	0	1	. 0	5	• 3 •	,667	.667	,643
Merginel To	te i,s	* * * * * * * * * * * * * * * * * * *	17	1	*****	0	4	s *****	2	30	• •		
		+++4	+++	*****	****	****	++++	****	****	*****	▼		

category Marginal Agraement: .445

Cohenis Kappal .357

Table 147

Reliability on Learner Moves
Observer 30 Expert 80
School 801 Grade 5
Week 0 Day 5
DMP

		Cat	egory	chos	en by	0686	erver	30	Marginai	Nominal	Marginel	Light's Extension
Category chosen (Cát.	1	5.	3	4	5	6	7	Totals	Agreement	Agreement	of Kappa
, 1	++4	*****	****	****	****	****	•+•;•••	* * * * * *	++++++;+++ +	• • •	7	\
Engaged - Written	ĭ +	5	0	5	0	0	. 0	, 0	• 7	+ 714	, 857	643
	• •	0	0	;	. 0	0	0 ~	0	. + 0	• ===== \\	******	
Engaged - oral	*	V				,	K.	•	+ 6	+ + •667	.857	,565
Engaged - covert	3 +	1	0	•	0	0	1/4	0	•	•		,483
Not angaged - interim	4 +	0	0	0	1	1	0	0	• S	+ •500°	,500 →	
Not engaged - waiting	• • • •	, 0 .	0	1	0	5	1	0	+ \ 7	4. 4714	.857	,643
,	· •	0	0	0	0	0	1	0	÷/ 1	+ 1.000	.333	1.000
Not engaged woff task	6 +	_	•	-		-		_	•/ •	+ + 1.000	1.000	1.000
None of the above	7 +	0	0,	0	0	0	, 0	,	•	• .	•••	
	**	++++++	****	++++	****	** +**	****	*****	******	• • · · · · · · · · · · · · · · · · · ·		4
Merginal Tot	+ + 818:	6	0	7	1	, 6	3	7.	+ 30	•		
	•							*****	* *******	•		
•	**	~~~~	- -	* * * * * *							•	7

Cohenia Kappai .700

Table 148

Phase IV - IGE Evaluation project
Descriptive Study - Spring 1978

Reliablity on Learner Moves
Observer 40 Expert 80
School 801 Grade 5
Week 0 Day 5
DMP

•		Cat	egory	chos	en by	061	erver 4	0	Marginal	Nominei	Marginal	Light 18 Extension
Cetegory chosen C by Expert 80	at,	1 /*	2	3 ,	4	5	6 /	7	Totals	Agreement	Agreement	of Kappe
,1	•	• • • • • • • • • • • • • • • • • • •	****	****	*** *	****	• • • • • • •	****	•	•	•	
Engeged - written	1	6	0	0	0	1	. 0	0	• 7, •	.857	1.000	.814
Engaged - orai	. 2	• • 0	0	0	, 0	. 0	0	0	0		0.000	· 🐙 🖦 🖛 🖘
Engaged - covert	3	• • 1	0	5	0	0	0	0	• 6	.833	1.000	.792
Not engaged = interim	4	♦ ♦ 0	1	0	1	0	₽ 0	. 0	~ . 2	.500	.500	,483
Not engaged - waiting	5	• • 0	: 0	1	0	6	0	0	7	.657	- 1,000	.814
Not engaged -of task	6	+ 0	0	0	0	0	1	0	1	1.000	,500	7.000
hone of the ebove	7	• • 0 ;	0	0 .	0	0	1	6	÷ 7	.857	.857	021
,	•	******* *	****	*****	****	****	****	*	******			
Merginel Tota	9 8	+ 7 +	1	6	1	7	5 ,	6 - †	÷ 30	•	•	• •
	,	******	***	*****	****	****	*****	****	******	*		

Cetegory Merginel Agreements ..694

Cohents Kappel .792

Table '149'

Reliability on Learner Moves
Observer 10 Expert 90
School 801 Grade 2'
Week 0 Day 5
WDRSD

			Cate	gory	chos	en by	0bs	rvar	10	, Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expert 90	Cat	ı	1	2	3	4	5	6	7	Totals	Agr.comant	Agreement	of Kappa
		***	++++	****	****	****	****	*****		•		,	
!		• '		0	0	0	0	0	0	+ 0 +		8 40 40 40 40	
Engaged - Written	1	•	, , 0	v	٧	•	•			• •		0.000	
Engaged - oral	2	•	0 ,	0	0	0	0	0	0 =		•	.	1)
	_	•	•	0	11	Ó	1	0	1	. 13	. 846	765	775
Engaged - covert	3	*	0	U	••	•	•		_		.750	. 075	713
Not engaged - inter;	m 4	•	. 0	0	1	6	1	0	0		, ,,,,,		•
	•	•		٠,	´ 5	1	51	1	1	+ 30	• 700	.800	.460
Not engaged = waiting	10 2	*	0 .	1,	ι ,	•		1		• 2 ·	• • • • • • • • • • • • • • • • • • •	1.000	.401
Not engaged woff tel	sk 6	•	0 '	0	0	0	I,	1	0	+ E	•		
·		•	_		0	٠ ٥	0	0	1	1	. 1.000	, 333	1.000
None of the above	. 7	•	0	0	V	٧	v	•	-	•	•	,	
•		**		****	++++	*** *	****	****	*****	*****	•		·
		+		_		7	24	2	3	5 4	•		
Manginal To	otals	•	0	1,	17	,	-	**	-	•	•	•	
		• •	++++	****	*+++	****	****	****	*****	*****	•		
						•	4	7				1	

Category Merginal Agreementi: .629

Cohenta Kappas .60%

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lable 150

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978 .

Reliability on Learner Moves
Observer 20 Expert 90
School 801 Grade 2
Heek 0, Day 5,
WDRSD

		Cet	egory	·cho	en by	0bse	ervar	50	Manalasi		Manatasi	Light's
Category chosen by Expert 90	Cat.	1	5 ,	3	4	. 5	6	7	Margine! Totals	Nominal Agreement	Merginal Agreement	extension of Kappa
, and a second s	***	* * * *	••••	++++	• • • • •	• • • • •	****	****	****		w.	
Engaged - written	1 +	0	Ò	0	0	0	0	oʻ	• 0 •	****	0.000	, , , , , , , , , , , , , , , , , , , ,
Engaged - oral	5 + • •	0	0	0	0 3	0	0	, 10			0.000	
Engaged - covert	3 +	0	1	8	ò	3	. 0	1	13	.615	, 923	.505
Not engaged - Interi	m 4 +	1	C	6	5	5	0	0	• • •	.625	.875	,569
not engaged - Waltin	+ 10 5 +	1	0	۴,	1	21	1	2	+ + 30 +	.700	900	,400
Not engaged -bff tas	+ ik 6 +	٥٠,	0	0	• 0	1	1	0	+ 5 +	.500	1.000	.481
None of the above	7 +	u	.0	0 .	1		.0	. 0		0.000	.333	059
	· •••	*** **	· • • • •	++++·		****	•	****	• • • • • • • • •	/ .	* · · · · · · · · · · · · · · · · · · ·	1
Marginai To	+ 2189	2	1	12	7	27	2	3	+ 54 +	f_{i}		. /
	***	++++#+	· ••••	++++ [;]	* * * * *		****	****	* ********		•	

Cohen's Kappa: .456

Table 151

Phase IV - IGE Evaluation Project -Descriptive Study - Spring 1978

Reliability on Learner Moves
Observer 30 Expert 80
School 801 Grade 2
Week, 0 Day 5
WDRSD

			•	~· **	. 4	1		Light's
Category chosen Cat, by Expert 80	Categ	ory chosen	9 06897 5	6. 7	Marginel Totals,	Nominal	Marginal Agreement	extension of Kappa
Engaged - written 1 Engaged - oral 2 Engaged - covert 3 Not engaged - interim 4 Not engaged - weiting 5 Not engaged - weiting 5 Not engaged - off tesh 6	2	1 1 0 1 1 0 1 2 0 0 0 0 0 0 0 1 0 2 2 0 0 1	2 0 2	0 0 0 3 1 0 2 6 0 0 3	12 5	.750 .250 .429 .0,000 .400 .500	.800 .857 .500 1.000 .780	.654 .221 .265 080 .339 .400
merginal Totals	15	2 12	******* 5	9 7 +++++	• 54 • 54 • • • • • • • • • •	• • • • • • • •		

Catagory Marginal Agreements .738

Cohenis Kappel .388

Table 152

Reliability on Learner Moves
Observer 40 Expert 80
School 801 Grade 2
Week 0 Day 5
WDRSD

Catagory chosen . (Cat	ı	Cat	gory	choi	edy pa	Obse	rveř	40	Marginal	Nominal	Marginei	Light [†] S Extension
by Expert 80	#	٠.	1	5,	3	4	5	6	7	Totals	Agreement	Agreement	of Kappa
•	•	+++	• • • • •	• • • • •	• • • • •	*****	++++	****	+*+++	*****			
Engaged - written	1	•	10	0 '	5	. 0	0	0.	0	12	.833	, 750	.763
Engaged - oral	5	•	Q	3	` 1	0	0	0	, 0 -		.750	1.000	,730
Engaged - covert	3	•	3	1 .	7	/3	0	0	0 .	14	• \$00	1.200	, 325
Not engaged - interim		*	0	0	0	2	ο .	0	0	2	1,000	. 286	1.000
"Not engaged - waiting	5 1	•	0	0 .	0	1	4	0	ó	5	.800	800	.784
Not engaged -off task	6	•	3	0	4	1	· 0	•	0	12	,333	.333	.260
None of the above	· 7	•	0 '	0	0	0	0	p	5	5	1.000	1.000	1.000
. (***	****	****	****	****	• • • • •	• • • • •	*****	******			
Merginel Tota		* *	16	•	14	7	4	4	5	84	• •	1	•
		♥	****	****	****	****	• • • • •.	• • • • •	*****	******	, ,		•

Çatagory Marginai Agreementi .738

Cohenia Keppel .573

Table 153

Reliability on Learner Moves
Observer 10 Expert 80
School 801 Grade 2
Heek 0 Day 5

1			Cat	egory	chos	en by	0bs4	rver	10		. /		Light's
Category chosen by Expert 80	Cat		1	2 '	3	4	5	6	7	Margina; Totals,	Nominal Agraement	Marginal Agreement	.Extension of Kappa
		****	*** *	****	****	****	++++	****	****	• • • • • • • • • • • • • • • • • • • •		•	
Engaged - written	1	•	4	0	0	1	0	©.	0	+ 5	. 600	,625	777
Engaged - oral	. 2	•	0	3	0 ,	0	Ŏ	0	• 0	3	1.000	.300	1,000
Engaged - covert	, 3	* ′	3	2	24	10	· •	1,	2	46	.522	.587	,269
Not engaged - Interi	m . 4	•	0	1	0	2	1.	0 .	0 .		.500	,286	,391
Not angaged - weitin	g 5	*	0	Ü	2 ′	. 0	6	0	3	11	,545	1.000	.471
Not engaged woff tas	k 6	*	0	0	1	0	, 0	3	0		.750	1.000	,736
None of the above	7	• •	1	0	0	1	0	0	3	5		,625	,554
marginal To	tels	**** * *	8	5	27 .	14	11	4	8 1	• 78 •			
		+++4	***	****	****	++++	****	****	·	*******	•	-	ja.

Category Mergins! Agreementi .660

Cohenis Kappai .43



Table 154

Reliability on Learner Moves
Observer 20 Expert 80
School 801. Grade 2
Week 0 Day 5
DMP

• •		Četes	ory	chos	en by	Obse	rver	50 ⁷ .	Marginal	Nominai	Mardinal	Light's Extension
by Expert 80 Cat.	•	1 8	2	. з	4	5	6	7	Totals	Agreement	Agreement	of Kappa
	++++	++++	* * *	****	****	****		****	******		g*	
Engaged = written - 12	*	2	0	5	1	0	•	0 .	÷ 5	.400	.800	,368
Engaged - oral 2	*	0.	3	0	0	0	0 4	0	. 3	1.000	,429	1.000
Engaged - covert 3	• * * · ·	2	2	38	0	,5	. 1	1	46	,826	.958 .	. 548
Not engaged - interim 4	*	0	ì	2	1	0	0	0		,250	.500	,230
Not engaged - waiting 5	*	0	1 .	. 3	.0	6	0 ,	1	11	,545	.909	.479
Not engaged woff task 6	•	0	0	1	0	1	2	0	•	.500	.750	.480
None of the above 7	• •	0	0	2	0	1	0	5	• 5 •	•	.800	,368
,	****	+++++	***	++++	****	****	• • • • • •	++++	******	•		:
Marginal Totals	• •	•	7	48	, 2	10	3	4	70	•		
i.	****	• • • • • •	***	****	****	****	*****	****	******	• •	,	

Cotegory Marginal Agreement: .735
Cohents Kappet .492

Table 155

Reliability on Learner Moves
Observer 30 Expert 90 .
School 801 Grade 2 Week 0 Day 5
DMP

	٠,	d Cet		choi	en by	0bs4	rver	30	Marginel	. Nominal	Marginal	Light's Extension
Category chosen by Expert 90	Cat.	1	^2	3	4	5	6	'7 .	Totals	Agreement	- Agreement	of Kappa
	•	*****	· • • • • •	****	+	F#+++	****	*****	****			'
Engaged - written	- 1	7	1	· O ·	0	0	0	0	. 6	.075	.471	.843
• •		. 0	•	2	0	1 44	1	0	• 5	200	.714	,127
Engaged - oral	2 4	•		_	•	•	· ,		+ 32	• • • • • • • • • • • • • • • • • • •	.727	. 326
Engaged +: Covert	3 4	, 5	4	10	0	8	. 1	0 -	•	•	•	•
Ngt engaged - Inter	lm 4	3	, Q	1	7	0	1	1 0	+ 12	• , 583	,667	,539
Not engaged - waiti		• 0	· 0	1	0	3	1	2	7	429	1.000	,377
	4			2	. 1	,	13-	<i>/</i>	* *19	+ 47684	,947	,598
Not engaged moff ta	sk 6	2	0	2	•	V	• •	•,	•	•	1 000	,486
none of the above	7	0	1	0	0	1	1	8	+ 1 <u>1</u>	•	, 1.000	,,,,,
	٠	• • • • • • • •	***	• • • • •	****	* * * * * *	****	*****	******	+		•
, , ,		• 17	. 7	16	8	7	18	11	. 84	•	*	
Marginal T	4441	*							• •••••••	•		• ,
		******	****	****	****	****	****	*****	* * * * * * * * * * * * * * * * * * * *			•

Category Merginal Agreement: .769

Cohents Kappet .504

303,

Table 156

Reilability on Learner Moves
Observer A D Expert 90
School Roll Grade 2
Week 0 Day 5
DMP

		Cat	•90ry	chos	ah, by	Obs•	rver	10	Marginal	Nominai	Marginei	Light's Extension
Getegory chosen by Expert 90	Cat.	1	2	3	4	5	6	7	Totals	Agreement	Agreement	of Kappa
Engaged - Written	1 +	• • • • • • • • • • • • • • • • • • •	ď	0	0	0	0	0	. 6	1.000	.533	1,000
	, 5 + +	0	ŝ,	2	0	,0	1	. 0	5	.400	.714	, 3,45
Engaged - covert	3 +	, 5	3	12	0	0	5	Co,	+ 55	545	,• 864	,413
Not engaged = inter	im 4 +	1	0	2	7	0	5	0	+ 12	,583	. • 583	,545
Not engaged waiti	ng 5 +	. 0	1	5,	0	, 2	1	1	† 7 •		∉286	,925
Not engaged moff to	isk 6 +	1	0	0	0	. 0	18,	0	+ 19	, 947	.760	,695
None of the above	7 +	0	1	1	0	0	1	8	+ 11 ₁	• ,727 •	, 816	1010
Mbrg nai 1	rotals +	15	۰۰۰۰۰ ۳ مر	19	7	. 2	***** 25	9	********* * 8*	• •	7	•
	•	*****	****	++++	****	****	****	*****	****	4 10	€ .	

Catagory Marginal Agreements .65%

Cohenis Kappel .610

Lightis

Table 157

Phase IV - IGE Evaluation Project Descriptive Skudy - Spring 1978

Reliability on Interactions
Observer 10 Expert 90
School 801 Grade 2
Week 0 Day 4
WDRSD

Date: 08-25-79 Program: RELP95 Data File: RELD1

.		. •		Cate	gory	chose	n by	0680	rvec	10	•		Marginal	, Nominal	Marginal	Extansion of Kappa
Category chosen by Expert 90	Cat.	1	2	3 ·		5 .	6	7	6	9	10	11 .		Agreement	Agreement	, Ampha
	٠	*****	•••••	****	++++	****	***	****	****	****	****	*****	• • • • • • • • • • • • • • • • • • •			-, 059
Target to Tencher	1 •	. 0	0	. 0 /	0	0	0	0	1	0	0	11	• 2	0,000	,667	•
Target to Other Adult	. 9 4	. 0	0	0	0	0	Ò	·0	0	0	0	0	• 0		0.000	
•	4			1	0	0	ů	0		0	0	1	. s	.500 '	.500	. 460
Target to Student	3 (, 0		•	•	_	. "	•	,	0	0	0 .	+ 0	• • ***==	0.000	*****
Target to Tchr & Grp	4	0	0.5	0	0	0	•	9	•	0	0	0	• • 0	♦ ♦ • • • • • • • • • • • •	(pr eq = = = =	• • • • •
Teacher to Target	5	0	0	0	0	0	0	. 0	V	_			• • •	• •	. gas age age (40 CF)	~
Cther Adult to Target	6	0	0	. 0	0	0	0	0	0	0	0	0	•	• • • • • • •		*** *** *** ***
Student to Target	7	/ [~] 0 ,	0	0	0	0	0	0	0	0	0	0	• 0	•	.455	,749
Teacher to Group	В	• 1	. 0 .	0	0 _	0	0	Ó	•	0 ‹	Q	0	• 5 • ·	• • • • • • • • • • • • • • • • • • • •	•	
Other Adult to Group	9	• 0	. 0	0	0	70	0	0	0	0	0	0.	• 0	+ "	****	
•	10	+	0	. 0	0	0	0	0	0	0	. 0	0	• 0	• ••••	gp 4p 4s 4s 4b	
'Student to Group	11	•	1 .	3	3	0 ,	0	0	6	0	0	30	45	.667	.711	.102
None of the above		•	, -			••••	++++		****		****	***	*******	•	, -	
		• 3	,,,,,		3	0	0	0	11	0	0	32	• • 5•	•		3 .
Marginal To		•	` h		-	· ↓↓↓□			****		***		•••••	• •		306
•	,	******	~ ~ ~ ~ ~ .	, ~ ~ ~ ~ ;	, , , , ,		/		•							UVU

395

Category Marginal Agreements .365

Cohents Kappat . 27,1

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3.5

Railability on Interactions
Observer 20 Expert 90
School 801 Grade 2 \
Week 0 Day 4
WDRSD

Date: 06-25-79 Program: RELP95 Date File: RELD1

,	•			•	t Cat	egory	chos	en by	0586	rver	2 0			Marginal,	Nominai	Marginel	Lightis Extension
Category chosen by Expert 90	Cat.	`	10	.5	3	. 4	5	6	7	8	9	10	11	Totals	Agraement	Agreement	of Kappa
,		• • • • •	++++	, ,++++	****	*****	++++	****	****	****	• • • • •	****	*****	*********	•		*
\ 		•			•		٨	0	0	1	0.	0	o k	. 2	0.000	.500	••080
Target to Teacher	1 4	F	0 .	4	U .	V		•	•	•	0	` 0	۵	• 0 •		. 0.000	***
Target to Other Adult	2 .	•	0 ,	, 0	0	O	0 .	0	0	0	,	v	•	•			.481
Target to Student	3	◆	0	0	1	U	0	0	·o	, 0	0	0	1	• 8	500	1.000	• 40 6
.•	4	•	0		0	0	0	0	0	`o	Ò	0	0	· 70 ·	## ## ## ## ## ## ## ## ## ## ## ## ##		,
Terget to Tchr & Grp	•	▼	U	U	V			•	_	٠.		0 '	•	•	, **** ******	, 	•••
Teacher to Target	· 5	• (0,	o_	0	0 🚜	Ω,	0	. 0	0	·, 0		٠,		•		
Other Adult to Target	6	*	0	0	0	0 .	0	0	. 0	0	€0	0	0 ′	• 0		00000	
	7	*	0	0	0	0	0	0	, 0	0	, o,	- 0	0	• 0		₽₩₩₩	****
Student to Target	,	•	٧	V	_	•	,		~	3	0	۰,0	1	• 5	.600	.800	,568
Teacher to Group,	8	•	1	0	0	0	0	0	U	3	. •	٠.	•	•	•	44899	
Other Adult to Group	9	•	0	0	0	0	0	0	0	0	. 0	0	0	• 0)		
A	10	*	0	0 '	. 0	0	Ô	0	0	0	' O	0	0	• 0		, 50004	*****
Student to Group	10	•	·	_		•	•	0	, 0	Q	0	0	41	+ 45	,911	,956	,564
None of the above	11	•	3	0	1	0	. 0	U	, U	ч		•		•	•	•	ϵ_{a}
• •	,	****	***	****	****	****	++++	* * + , * *	* ****	****	****	****	+++,++	• • • • • • • • • • • • • • • • • • •	•	,	
marginal To		•	4	1	2	0	0	0	0	4	0	0	- 43 .	+ 54	• "	_	•
Metaluai in		*	,	•									****		▼ •	•	•.
		***	• • • •	****	****	****	* * * * *		~~~	* * * * *	, , , , , ,			•		, •	

Category Marginal Agreements .653

Cohents Kappat .48

207

308

RIC.

Table 159

Phase IV - . IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Interactions
Observer 30 Expert 80
School 801 Grade 2
Week 0 Day 4
HDRSD

Detel 06-25-79 Programi RELP95 Data Filel RELD1

ı		•		Cat	_ egory	chos	en by	06401	rver :	30		•	Marginal	Nominal	Marginel	Lightis Extensio
ategory chosen by Expert 80	Cat.	1	2	3	4 '	5	6	7	8	9	10	11	Totals	Agreement	Agreement	ef Kappa
	•	*****	****	++++	****	****	****	****	*****	****	***	*****	*	,		
arget to Teacher	1,3 *	6	0	0	0	, 0	,0	0	0	0 •	0	0	• 0 •	● □ → ₩ ♥	,	*
	2 +		0	0	0	0	0	• 0	0	Q,	. 0	0	• 0 •		0.000	₽₽₽₽ ₩
arget to Other Adult	•		•	3	0	0	. 0	0	0		0	0	. 3	1.000	,750	1,000
arget to Student	3 +	0	0	_	4	•		, ,	0	0	6	0	• 0 •	***		
arget to Tchr & Grp	. 4 +	0	0	0	0	0	Q	U	•	•	•		•	0.000	0.000	0.000
eacher to Target	5 +	Ó	o´	0	0	. 0	0	1	0	0	0	مصل		•	0.000	0.00
ther Adult to Target	. 6 •	0	1	01	0	0	0	æ	0 ,	0	0	0		0.000		p== +(
tudent to Target	7 4	0	. 0	Ö	0	0.	. 6	0	0	. 0	0	0 11	• 0) 	0 • .0 0 0	
•	8 4	0	. '	0	0	0	o	0	8	Ó	0	3	+ 11	787	•727	68
eacher to Group	•	•	•	, -	0	6	o	0	0	0	0	0	1	0.000	0.000	0.00
ther Adult to Group	9 (• 0	•	v	•	•	•	4	0	٠ _	0	0	• 0,) -mmmma- († .maqua	
tudent to Group	10	0.	0	0	0	0	. 0		•	•		42	+ 43	• • • • • • • • • • • • • • • • • • • •	,986	. 90
ione of the above	41	• 0	0	1	0	0	C	′ 0	, 0	0		* 6	•	•		
		• • • • • • •	****	++++	****	****	*****	****	****	****	****	*****	•	* • "		
marginal To	tels:	+ .0	2	4	0	0	0	1	8	0	0	45	60	♦ ♦		÷
nat with the		• •••••	****	****	* * + *, *	****	****	****	• • • • •	****	* .* * *	+++++	******	•	· ·	•
JQ	٠,				•			•						-,3		$[\cdot]$

309

Category Marginal Agreement: .304

Schents Kappal .732

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Table 160 🕻

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978 Date: 06-25-79 Program: RELP9S Date File: RELD1

Reliability on interactions
Observer 40 Expert 80
School 801 Grade 2
Week 0 Day 4
WDRSD

Merginel Nominal Marginal Catedory chosen Cat, Totals by Expert 80 Target to Teacher Terget to Other Adult .273 .600 ,333 Target to Student Tarbet to Tchr & Gra 1.000 1.000 1.000 Teacher to Target >500 1.000 1.000 Other Adult to Target 0.000 ----Student to Target .086 .917 .909 11 Teacher to Group 0.000 0.000 0.000 Other Adult to Group Student to Group 10 1 .060 None of the above Marginal Totals

311

Cetegory Marginal Agreementi .55 Cohenía Kappal .670

312

. Table 161

Phase IV - Ins Evaluation broject Descriptive Study - Spring 1978.

Reliability on Inveractions
Observe: 10 Expert 80
School 801 Crade 2
Week 0 Day 4
DMP

Date: 06-25-79 Program: RELP95 Date File: RELD:

*Category chosen	Cat,	•			Ca	tegory	chose	in by	0b s 4	nver	40.		•	Marginal	·Nominay	Marginal	Light's Extension of Kappe
by Expert 80	#		1	5	. 3	4 .	5	6	7	8	9	10	11	Totals:	Agreemant	Agreement	Of Mappe
	į	****	+++	****	****	• • • • •	****	****	***	****	****	****	*****	******	3	• ,	
Target to Teacher '	. 1	•	0	F.	. 0	0	1	0	0	0	0	. 0	0		0.000	,500	w.024
Target to Other Adult	5	♦	0	0	, 0	0	0	0	o.	0	0	0	0	• 0	***		
Target to Student	3	•	0	0	1	0	0	0	0	0	0	0	~ 0		1,000	.167	1.000
. Target to Tchr & Grp	4	♦ (0	0	0	O _.	0	۰٫۰ ۱	0	0	0	9	0	• 0			⊕ w ÷ = w <u>.</u> €
. Teacher to Target	5	♦ ♦	ο.	. 0	0	0	0	. 1	0	1	٥٠	Ò	0	· 2 ·	, _ 0.000	.667	037
Other Adult to Target	6	*	1	0	0	. 6	1	1	0	2	0	0	1	. 6	167	,333	, . 146
Student to Target	7	*	0	0		0,	· 0	0	1	0		-0	0	15.2	.500	,667	.481
Teacher to Group	8	*	0	0	0	. 0	. 0	0 "	0	- 4	_k 0	0	4		,500	, .500	,382
Other Adult to Group	9	• •	1	0	0	. 0	0 '	0_,/	0	5	, 0	0	2	. 8	0,000	0.000	0.000
Student to Group	10	. ♦	, O ·	Ō	0	. 0	. 0	0	0	. 0	0	y 0	0	· Q	- ********		****
None of the above	11	*	0	, 0	4	0	1,	0	5	- 4	0	0	45	56	.604	,929	.484
		****	**	• • • • •	****	****	*****	*****	* * * *	• • • • •	****	****	****	********	•		•
Marginal Tot	a : s	♦	2 .	0	6		3 -	2 ,	3	16	Ò	0	, 52	+ 84		,	9,
	_, -	•	_											*	•	314	•
217,		****	•	****	,****	****	*****	~ * * * *	* * * * ·	- -	****	* * * * *	*****	*******		· · · · · · · · · · · · · · · · · · ·	

Category Marginal Adresment: .470

Cohents Kappat .325

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Full Text Provided by ERIC

Fable 162

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1976

Reliability on Interactions
Observer 20 Expert 80
School 801 Grade, 2
Heek 0 Day 4
DMP

Date: 06-25-79 Program: RELP95 Date File: RELD1

Lightis

				Cat	agory	chos	en by	0686	rver	50			Marginei	Nominel	Marginai	Extension	
Category chosen by Expert 80	Cat.	1	5	3	4 0	5	6	7	8	9	10 4	\$ ¹ 1	Totals	Agreement	Agreement	of Kappa	
,	•	• • • • • •	****	· • • • • •	****	• • • • •	****	****	****	****	****	****	• • • • • • • • • •		/ '		
Target to Teacher	1	• 0	, o	•	2 O	. 0	0	0.	0	0	0	1		0.000	.200	063	
	. 2	• 0	0	. 0	0	0	0	0	0	0	0	0	• 0				
Target to Other Adul	•	+	~	•	0	0	0	0	0	0	0	0	• 1 •	1.000	.500	1.000	
Target to Student	3	•	0	•	-		-	-		0	0	0	• 0		(a) (p) ((a) (a) ((b)	***	
Target to Tchr & Grp	4	+ 0 +	0	0	0	0	0	0	0			,		0.000	0.000	0.000	
Teacher to Target	5	• i	0	0	0	, 0	0	0	0	0	0	•	•	•	0.000	0.000	
Other Adult to Targe			0	0	0	0	0	0	0	0	0	3	+ 6	0.000			
Student to Target	7	+ ⊶ + 0	0	1	0	0	0	0	0	0	0	1	. 2	0.000	0.000	0.000	
Teacher to Group	8	• 0	0	0	0	0	. 0	0	4	0	0	4	. 8	.500	.800	,432	٠,
Other Adult to Group	9	• • 1	0	0	0	0	0	0	3	0	0	4		0.000	0.000	0.000	
		•	0	0	0	0	0	6	0	0	0	. •	• 0			*****	
Student to Group	10	•			0	0	0	0	3	0	0	53	+ 56	,946	,836	.735	
none of the above	11	• 0 •	0	0	v	Ū							*	•			
		* * * * * * * * * * * * * * * * * * *	*****	*****	*****	• • • • •	****	****	••••	*****	****	••••	•	• •			
Marginal To	tels	• 5	0	2	0	0	0	0	10	0	0	67	• 84 •	•			
		*****	*****	****	• • • • •	***	****	**+*	****	****	****	+++++	******	•			

Category Marginal Agreement: ,292

Cohents Kappa' .32

315

Table 163

Phase IV - IGE Evaluation Project - Descriptive Study - Spring 1978

Reliability on Interactions
Observer 30 Expert 90
School 801 Grade
Week 0 Day 4
DMP

Date: 06-25-79 Program: RELP95 Data File: RELD1

• '1			•	Cate	ngory	chose	en by	0600	erver	30			Marginal -	Nominel	Merginel	Lightis Extension
Category chosen C by Expert 90	at.	1	2	3	4	5	6	7	8	9	10	11	Total \$	Agreement	Agreement	of Kappa
, t	•	*****	****	****	• • • • •	****	****	****	*****	****	****	• • • • • • • • • • • • • • • • • • •	*********	•	P	•
Target to Teachgr	1 •	0	, O	ο .	0	0	0	0	0	0	. 0	0	• 0 •	· ##	0,000	## ## ## ## 1
Target to Other Adult	2 4	• 0	0	0	0	0	0.	. 0	' 0	0	0	. 0	+ 0 +		*** *********************************	,
	•	•	, O	3	1		0	0	. 0	0	0	2	. 6	• 200	1.000	,450
Target to Student	3 (•	•	-	_	•	•	0	0	0	0	سر 0	• 0 •	in in do on co	0.000	***
Target to Tchr & Grp	4 ()	0	0	0	. 0	0	•	·	•	_		. 2	.500	.500	,494
Teacher to Target	5,	0	` O	0	0	1	0	Ó	` 1	0	0	•	•		•	
Other Adult to Target	6	0	0	0	0	0	0	0	0	0 .	· \O -	0	• 0			
Student to Target	7	• 0	. 0	2.	0	0	0	0	• 0	0	0	0	. 2	0,000	0.000	0,000
		•	0	0	0	0	0	٥	8	0	0	4	13	,615	,923	,545
Teacher to Group	8	•	·	·	·	·	•	•	0	0	0	. 0	• 0		***	
Other Adult to Group	9 :	♦ 0	,	0	0	0	D ·	, 0	•	·	-		• 0		,	****
Student to Group	10	• 0	\ 0	0 ***	0	0	0	0	0,	0	0	0	•	,		. 630
None of the above	11	1	. 0	1	1	0	0	0	3	0	0	49	+ 55 +	,891	1.090	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		*****	*****	*****	****	****	****	****	****	****	****	*****	*	•		r
Marginal Total	9 8	• 5 •	0	6	2	1	0	0	12	0	0	55	+ 78) •	i	
(-	+				••••	****	• • • • •	****	****	****	****	******	•	3	1.3
				-												

317

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Cohenis Kappai .537

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Table 164

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Interactions
Observer 40 Expert 90
School 801 Grade 2
Week 0 Day 4
DMP

Date: 06-25-79 Program: RELP9S Date: File: RELD1

A.

				Cat	: e gory	chos	en by	068	erver	40			Merginal	Nominel	Marginal	Lightis Extension
Catagory chosen by Expert 90	Cat.	1	2	3	4	5	6	7	8	9	10	11	Totals	Agreement	Agreement	of Kappa
•	•	****	****	****	****	****	++.++	****	****	****	• • • • •	• • • • •	•••••			
Target to Teacher	1 +	0	0	0	0	0	0	0	0	0	. 0	0	0	- 100 an es 40 (f)	0.000 .	****
Target to Other Adult		0	0	0	0	0	0	0	0	0	0	0			· (m w w w w	****
larget to Student	3 +	. 0	. 0	4	0	0	0	1 .	0	0	0	1		.667	.833	. 544
Target to Tchr & Grp	• •	0	0	0	0	0	. 0	0	0	0	0	0	• 0		gs an ab (10 M)	*****
Teacher to Target	5 +	0	0	0	0	, 1	0	0	1	0	0	0	2	.500	1.000	,487
Other Adult to Target	. 6 •	0	. 0	0	0	0	0	0	0	0	0	0	. 0	***==		* • • • •
Student to Target	7 *	0	0	1	0	0	0	1	0	0	oʻ	0		•200	1.000	À .487
Teacher to Group	/ B •	, 0	0	0	0	1	0	0	10	0	0	2	13	.769	1.000	.723
Other Adult to group	9 •	0	0	0	0	0	0	0	0	0	0	0	• 0		****	****
Student to Group	10 +	0	0	0	0	0	0	0	0	0	0	0.	• 0	***		****
hone of the above	11 •	1	0	0	0	0	0	o	2	0	0	58 _	+ 55 +	,945	1.000	.015
	•	, , , , , , , , , ,	*****	****	· • • • •	****	****	****	• • • • •	****	••••		• •••••••		•	
Marginal Tot	• • # •:	1	٥	5	0	2	0	2	13	0	0	55	76		4	4
	•	, , *** **	****	• • • • •	• • • • •	· • • • • •	****	· • • • •	• • • • •	****	* * * * *	* * * * * * *	• •••••			

Category Merginal Agreement: .800

Cohenia Kappai .727

Table 165

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Interactions
Observer 10 Expert 90
School 801 Grade 5
Week 0 Day 5
DMP

Date: 06=25-79 Program: RELP95 Data File: RELD1

,			1	Ca	tagory	cho	Jen by	, OP 2 6	rver	10	مستي>	٠ ار		Alam (m n)	Marginai	Light's Extension
Gategory chosen 4 by Expert 90	Cet,	1	s	3	, 4	5	6	7	8	9	10	11	Margina; Totals	Nominal Agreement	Agreement	of Kappa
		** <u>;</u> ***	*****	· · · · · · · ·	****	****	*****	****	,,,,,		•	•••	•			•
Target to Teacher	1	• 0	0	0	, o	0	0	0	0	0	0	0	• ' 0 •	் முறின் க		
Target to Other, Adult	5	• • 0	0	. 0	0	0	0	0	0, `	0	0	0			5	
Target to Student	3	• • 0	0	. 0	0	0	. 0	0	0	0	0~	1		0.000	.500	071
Target to Tchr & Grp	4	• • 0	0	0	0	0	., 0.	, 0	0	0	0	0	• 0	· · · · · · · · · · · · · · · · · · ·	,	
Teecher to Target	5	. 0	0	0	0	0	0	0	0	0	. 0	1	1	0.000	0 0 0 0 0	0.000
Other Adult to Target	6	+ 0	0	0	0	0	. 0	0	0	0	0	0	• 0,	· · · · · · · · · · · · · · · · · · ·		~~~
Student to Target	. 7	• • 0	. 0	1	0	0	0 .	. 0	0	0	0	0	1	0.000	0.000	0.000
Teacher to Group	8	+ 0	0	0	0	0	0	0	0	0	. 0	' 0		*******		***
Other Adult to Group	9	.	0	0	0	0	0	0	0	0	0	0		******	****	# w
Student to Group	10	• 0	0	0	0	0	. 0	0	0	0	0	1		0.000	0.000	0,000
None of the above	11	+ 0	0	1	0	0	0	0	0	0	0	25	÷ 26	,962	.929,	.483 "
o		* *****	****	• • • • •	*****	****	*****	• • • • •	• • • • •	****	*** *	*****	••••••	•		1
Marginal Tot	410	+ • •	0	2	0	0	0	0	0	0		28	÷ 30	• •	322	
×		*****	****	****	****	****	****	****	*****	***	****	+++++	• * • • • • • • • •	•		•

321

Category Margine! Agreement: .286

Ochenia Kappel .116



Table 166

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reilability on Interactions
Observer 20 Expert 90
School 801 Grade 5
Week 0 Day 5
DMP

Date: 06-25-79 Program: RELP9S Data File: RELD:

Annany shalla	Cat,			Cat	ngory	cho#	on by	0b**	rver	20			Marginal	. Nominal	Marginel	Light's Extension
Gategory chosen by Expert 90	#	1	5	3	. 4	. 5	6	7	* 8	9	10	11	Totals	Agreement	Agreement	of Kappa
•		• • • • • • • • • • • • • • • • • • •	****	****	++++	****	****	****	****	****	****	*****	*****	,	••	
Terget to Teacher	1	• 0	0	0	0 ^	0	0	0	0	0	9.	0	• 0		0.000	~~**
•		•	•	0	0	0	0	0	0	0	0		• 0	**********	· ***	
Yarget to Other Adult	2	• 0 • ·	0		v	v	•	•	•	•	•	•	•	0.000	1.000	*•034
Target" to Student	3	♦ 0	0	0	0	0	0	0	0	0	0	•		,	•	
Target to Tchr & Grp	4	• 0	0	0	.0	0	0	0	0	0	0	0 ,	• 0) - 	. 	
Teacher to Target	5	• • 1	0	0	0	0	0	0	0	0	0	0	• 1	0.000	0.000	0.000
		•	•	•	0	0	0	٥	0	0	0	0	* 0) 		
Other Adult to Targe	t 6	• \ 0	0 .	0	U	Ų	U	V	•	Ţ	•	•	•	0.000	0.000	0.000
Student to Target	7	• 4	0	1	0	9	0	0	0	0	0	0	•	•	0,000	
Teacher to Group	8	• 0 /	0 1	0	0	Ò	0	0	0	Q	0	0	• 0	•		
Other Adult to Group	9	: ./	0	0	` 0	0	0	0	0	0	0	0	• • 0			
•		* h	•	, ,		•	.0	0	0	0		1	• 1	• 0,000	0.000	0.000
Student to Group	10	♦ 0 •	. 0	0	. 0	0	U	V	•	·	,		•	• 1.000	,929	1.000
None of the above	11	• 0	0	` 0	0	0	0	. •	0	0	0	26	+ 26 +	• 11000	,,,,,,	. •
		******	++++	++++	****	++++	****	• • • • •	· • • • •	*+++	• • • • •	*****	*****	•		
Marginal To	tals	• ^===: • 1	0	1		0	0	0	0	0	0	28	• 30	•		
, martines so		•								• • • • • •	• • • • •		* ********	♥ . ♦		
		*****	4444	₹ ₹₹₹	7 7 7 7 7	· • • • • ·	* * \ * * '	* * * * * .		• • • •		•	•	•		
•		•				-									~ ~ · .	

323

Category Marginal Agreement: .321

Cohen's Kappel .298 "

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Table 167

2 . . .

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1976

Reliablilty on Interactions
Observer 30 Expert 80'
School 801 Grade 5
Week 0 Day 5
DMP

Date: 06-25-79 Program: RELP9S Date File: RELD1

	A - A			Cat	egory	chos	en by	Opse	rver	30	•	•	Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expert 80	Cat.	1	3	3	4	, 5	. 6	7	8	9	10	11	Totals	Agreement	Agreement	of Kappa
	•	*****	****	*****	****	****	****	****	****	****	****	*****	• • • • • • • • • •	,		1 '
Target to Teacher	1	• 0	0	0 *	0	0	0	0	0	0	0	0		****	***	****
Target to Other Adult	2	• 0	0	0	0	0	0	0	0	0	, 0	٥.	• 0	*****		
Target to Student	3	• • 0	0	0	0	0 ^	0	6	0	0	0	0		******	· (80 sto sin (80 life)	
Target to Tchr & Grp	•	• 0	0	0	, o	0	0	0	. 0	0	0	0		· # @ # #	**************************************	*****
Teacher to Target	5	+ 0	0	0	. 0	0	0	0	0	0	0	. 0 ,	. 0	***	# W # # #	****
Other Adult to Target	6	• 0	0	0	0	•	0	0	0	0	0	0	0			******
Student to Target	7	• 0	0	0	0	ð	0	0	٠	0	` 0	' 1		0,000	~ 0.000	0.000 =
Teacher to Group	8	+ 0	O	0	. 0	. 0	G	0	2	0	0	1	3	,667	.664	,643
Other Adult to group	9	+ 0	0	0	0	0	0	0	0	0	0	0	. 0			· 40 10 00 10
Student to Group	10	+ 0	0	. 0	0	0	9	0	0	0	0	0	. 0	· ### ##	0.000	***
None of the above	11	+ 0	. 0	0	0	0	. 0	0	0	0	1	25	26	,962	,963	615
		* ******	****	* * * * * *	****	****	****	· • • • • •	****	****	· • • • •	++++ +	• ••••••	•		
Marginal Tot		+ 0	0	. 0	0	0	0	0	2	0	1	27	• 30		J	26
		+ ^^^^			. 4 4 4 4						••••		•	•	J	~ U

325

Category Merginal Agreements .407

Cohenia Keppai .531

ERIC Full Text Provided by ERIC

Table 168

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

> Reliability on Interactions, Observer 40 Expert 80 School 801 > Grade 5 Day 5 DMP

Date: 06-25-79 Programi RELP93

	/			Cat	egory	chos	en, by	Obset	rver	40	•		Marginal	Nominal	Margine;	Lightia Extension
Gategory chosen C	at.		<u> </u>	3	4	···. 5	6	7	8	9	10	11	Totals	Avreement	Agreement	of Kappa
by Expert wo		•	_	•	•	, M	•	•				•				
, /	•	• • • • • • • • • • • • • • • • • • •	*****	****	****	****	*** *	****	• • • • •	P++++	*** * <u></u>	****	*****	•		
Target to Teacher /	1	بهر.	. 0	. 0	0	0	0	ο,	0	0	0 ,	, 0	0		G .mman.	****
Terget to Other Adult	2	0	0	. 0	0	0	0	0,	. 0	0	0	0 ″	• 0),	P	
Target to Student	3	0	0	. 0	Ó	0	. 0	0	٠0	0	0	0	• 0	,	0.000	
Target to Tchr & Grp	4	• 0	. 0 *	0	0	0	. 0	0	0	0	Ç 0'	0	• 0	**********	0.000	
Teacher to Target	5	• 4 0	0	. 0	0 -	0	0	0	0	0	0	. 0	. 0	· • • • • • • • • • • • • • • • • • • •		
Other Adult to Target	6	• 0	0	. 0	0	. 0	0	0	0	0 .	0	. 0	• 0	· · · · · · · · · · · · · · · · · · ·	27 € 47 W 47	, 6.6.44
Student to Target	'7	0	0	, 0 '	, 0	0	0	0	0	0	. 0`	1		0.000	0.000	0.000 ,
Teacher to Group	8	+ 0	0	` o	0		0	.0	3	0	Q	0	3	1.000	.600	1.000
Other Adult to Group	ື 9 ¹	+ 0	0	0	0	0	0	0	0	. 0	0	/ o	• 9			
Student to Group	10	+ +, 0	0	0	0	0	0	0	0	0	0 '	0	• 0		· m er 0 + 4	
None of the above	11	• • 0	0	. 1	1	0	0	0	5	0	0	55	+ 26	,846	.665	.341
••		******	****	• • • • •	*****	****	****	*****	*** *	+ • • • • •	****	*****	*****	•	5	
Marginal Tota	•18	+ 0	. 0	1	· 1	•	0	0	5	0	0	83	÷ 30	•	•	
<u> </u>		* **** *	****	• + + + •	• • • • • •	****	****	*****	++++	*****	****	*****	******			

Table 169

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Interactions
Observer 10 Expert 90
School 801 Grade 2
Week 0 Day 5
WDRSD

Detai 06-25-79 Programi RELP95 Data File: RELD1

				Cat	egory	ches	en by	0680	rver.	10			Marginal	Nominal	Margine: Agreement	Light's 'Extension of Kappa
Category chosen by Expert 90	Cat:	1	2	3	4 .	. 5	6	7	8	9	10	11	Total#	Agreement	WALGAMALIC	
	•	*****	*****	****	****	****	• • • • •	*** *	*** *	****	****	• • • • •	• • • • • • • • • •	•		
	•	,	0	0	0	Ü	0	0	0	ø	0	0	• 0	***		****
Target to Teacher) •	. 0		•	·	,	•	•	0	- 0	0	0	• 0) 	p = 4 + 7	*****
Target to Other Adul	2 2	0	0	0	0	0	0	0	U			-	•	0 0000	0.000	
Target_ to Student	3	0	0	0	0	0	0	6	0 .	Ó	0	0	• 0	•	•	****
Terget to Tchr & Grp	4	• 0	0	0	0	0	0	0	0	0	0	0	• 0	• ••••• • ′	** ** ** ** ** **	
	. 5	• 0	0	0	0	0	0	0	٥	0	0	1	• 1	0.000	1.000	
Teacher to Target	•	•	_		0	0	0	0	0	C	0	0	• 0		. 40 40 40 40	•••••
Other Adult to Targe	t 6 '	• 0	0	0	U	Ť	_	_	•	0	0	C	• 6	• •	0.000	***
Student to Target	7	• 0	0	0	0	. 0	0	0	0		•			• • ,625	.727	,529
Teacher to Group	8	• 0	0	0	0	0	0	0	5	0	0	3	•	•		****
Other Adult to Group	9	+ 0	0	0	0	0	0	0	0	0	0	0	• 0 •	+ ************************************	*****	•
		• • 0	0	ð	0	٥٠	0	0	0	0	0	0	• 0	4 4 4 4 4 4 4 4 4 4	· 60 CD 40 40 40	****
Student to Group		•		•	0	1	0	1	6	0	0	36	• 45		, 889	,229
none of the above	11	♦ 0	0	•	U	•	U						•	+		
		*****	*****	****	****	* * * * * *	• • • • •	****	****	••••	****		•	•		
Merginel To	stels	• 0	0	1	0	1	0	1	11	0	0	40	• 54 •	*		
		• •••••	*****	****	++++	****	****	****	• • • • •	****	****	*****	********	•	·	30
329															۹,)) ()

Category Marginel Agreement: ,523

Cohenia Reppel .316



Table 170

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Interactions Observer 20 Expert 90 School 801 Grade 2 Week 0 Day 5 WDRSD Date: 06-25-79 Program: RELP9S Data file: RELD:

			•	Cat	egory	chos	en by	Ohser	ver	20			Herginal	Nominal	Merginal	Light's Extension
- · · ·	cat,	1	. 2	3	4	5 ·	' 6	7	8	9	10	11 '	Totals	Agreement	Agreement	of Kappa
			****	*****	****	****	••••	*****	***	****	****	*****	•••••			•
Target to Teacher	1	+ 0	0	0	0	0	0	ر ٥	0	0 -	0	<i>'</i> o	• 0 •	· P • • • •	0.000	
Target to Other Adult	5	+ • •	0	٥.	0	`,o	0	0	0	0	0	0	• • •		. 40 40 40 40	*
Target to Student	3	+	0	0	0	0	0	0	0	0	0	0	• 0 •		****	
Target to Tchr & Grp,	4	÷ ·	0	0	0 /	0	0'	0.	0	0	0	0	• 0 •	·paran		.,
Teacher to Target	5	+	0	0	0	0	0		0	0	0	1	• 1 " •	0.000	0.000	0.000
Other Adult to Target	6	+ • •	0	0	0	0	Ó	0	0		0	` 0	• • • •		· 😂 🖨 🖚 🏞 🕾	·######
Student to Target	7	• •	0	. 0	0	0	O	0	0		0	0	***	****	# #### •
Teacher to Group	8	* ·	0	0	0	0	0	0	1	0	0	7'	• • •	,125	,125	.108
Other Adult to group	9	.	. 0	0	0	0	0	0	0	0	0	0	• 0		i days (45) (\$1) (\$2)	****
Student to Group	10	•	_	. 0	0	0	0	0	0	0	0	0	• 0 •	*		
None of the above	11	•	·	0	0	0	0	0	0	0	,	44	+ 45 +	• • • • • •	,865	••00
,,,,,,,	• -	*	*****	, *****	****	****	· · · · · ·	<u>*</u> ****	****	****	++++	• • • • • • • • • • • • • • • • • • •	• •••••••	١.		•
Merginal-Tota		• • 1	0	0	0	0	0	0	1	. 0	0	52	• 54 •		·	
rial attest	- 1 -	•		••••		••••	••••	•••••				. 	*			
					. • •		• • •			4	•					

Category Marginal Agraementi .244

Cohen's Reppel .144

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Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

> Reliability on Interactions Observer 30 Expert 80 . School 601 Grade 2 . Week 0 Day 5 WDRSD

Date: 06-25-79 Program: RELP9S 'Data File: RELD!

				Cat	dgory	chos	en by	0686	rver	30			Manalasi.	Nominal	Marginal	Lightie Extension
by Expert 80	Cat.	1	2	3	4	5	6	.7		9	10	11	Margina! Totals	Agreement	Agreement	of Kappa
		*****	****	*****	****	****	****	****	****	****	****	****	******		•	•
Varget to Teacher	1.	• 0	, 0	• 0	0		0	0	0	0	0	0		· 10 00 00 00 00 00	0.000	
Target to Other Adult	5 2	• 0	0	0	0	σ	0	· 0	0	0	0	0		****		
Target to Student	3	• 0	0	- 1	0	0	0	o.	0	0 0	0	3	•	.250	.750	.206
. Target to Tchr & Grp	4	+ 0	. 0	0	0	0	0	0	Ģ	0.	0	. 0	+ +0 +	· ************************************	0.000	Ø=#+=
Teacher to Target .	5	+ 0	0	0	0	0	0	0	0	. 0	0	1	• 1	0.000	1.000	019
Other Adult to Terge	t 6	• 0		Q	0	0	0	Ō	0	0、	0	Ó	• 0 •	****	***	# * * * #
`\$tudent to Target.	7	+ 0	, O	0	0	0	0	2	9	0	0 -	0	• • • •	1.000	1.000	1.000
Teacher to Group	8	♦	0	0	0	0	0	0	0	0	0	0	• 0 •		0.000	-,++ -4 ¹
Other Adult to Group	ģ	• 0	0	0	0	. 0	0	0	0	0	0	0)	• 0	· • • • • • •	· (#) (#) ** (*) (#)	
Student to Group	10	• · \ 0	0	0	0	0	0	0	0	0	. 0	0	• 0 •	· • • • • • • •		
None of the above	11	• 1	0	2	, 1	1	0	. 0	1	. 0	0	41	. 47	.872	.957	, 234
·		*****	*****	*****	****	****	****	****	****	****	****		• • • • • • • • • • •			*
Merginel To	tels	+ 1	` · 0	3	1	1 ,	0	2		0	0	45 • • • • •	• 54 •		33	4
			• • • •													

333

pategory Merginal Agreement: .530

Cohen's Keppai .311



Table 172

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1976

> Reliability on Interactions Observer 40 Grade 2 School 801 Week 0 Day 5 WORSD

Program! RELP95 Date File: RELD!

	,			Cat	agory	cho#	en by	() 1 1 1	rver	40				Non-ton-1	Morginal	Lightie Extension
Cetagory chosen by Expert 80	Cat.	ì	2	3	4	5	6	7	. 8	9	10	11	Marginal Totals	Nominal Agreement	Agreemant	of Keppe
	•	*****	****	****	****	****	****	***	****	****	***	+++++	********			
Target to Teacher	1	• 0	0	0	0	0	0	0	0	0	0	0 .	• 0 •		*****	*****
Target to Other Adult	2 4	• • 0	. 0	0	0	0	0	0	0	0	0	0	• 0	****	***	
Target to Student	3	• 0	- ^ <u> </u>	3 . ,	, .		.0. 3	0	a .0		0	- 0			1.000	,730
	4	•	0	0	0	O	. 0	0	0	0	0	~ 0	• 0 •	,	0.000	
Target to Tchr & Gfp	,	• 0	0	0	0	0	0	0	. 0	0	0	ı	• 1	.0 • 0 0	0.000	0 0 0 0 0
Teacher to Target	5	•	-	•	·	0	0	0	0	. 6	0	0	+ 0 +	·# • • • •		****
Other Adult to Targe	t 6	• 0 •	0	0	0	•	•	•	0	. 0	0	0	. 2	0.000	0,000	0.000
Student to Target	7	♦ 0 ♦	0	1	1	0	0	U	•	•	0	0				4400
Teacher to Group	8	• 0 •	0	0	0	0	0	0	0	0	_	•			· (1) (2) (2) (4)	.
Other Adult to group	9	• 0 •	0	0	0	•	, <i>p</i>	0	0	0	0	0	•	•		
student to group	10	• 0	0	0	0	0	/ 0	0	0	0	0	0	+ 0	• • • • • •	,979	1.000
None of the above	11	• 0	0	. 0	0	0	0	0	0	0	0	47	+ 47	1,000	,,,,	*****
		*****	****	****	• • • • •	****	****	****	++++	****	****	+++++	********			
Marginal To	tels	• 0	0	•	2	0	0	0	0	0	0	48	+ 54	•		
		* *****	*** *	++++	****	• • • • •	****	****	****	****	****	+++++	******	•		

Category Marginal Agreementi ,396

Cohenia Kappai

Table 173

Phase IV - 10E Evaluation Project Descriptive Study - Spring 1978

Reliability on Interactions
Observer 10 Expert 80'
School 801 Grade 2
Week 0 Day 5
, DMP

Date: 06-25-79
Program: RELP9S
Date File: RELD:

•				_/	, Cat	e gory	chos	en by	0b s 0	rver	10 .		٤	Marginai	Nominal	Marginel	Lightis Extension
Category chosen by expert 80	Cat.		1 (9 2	3	4	5	6	7	8	9	10	11	Totals	Agreemant	Agreement	of Kappa
3	•	***	· • • • • •	****	****	****	·+++	****	****	****	****	****	****	*****	•		•
Target to Teacher	. 1	+	2	0 -	0	0	, 0	0	0	0	0	0	0	2	1.000	.667	1.000
		•	0	0	0	. 0	(,	0	0	0	0	0	0	• 0	****	0.000	****
Target to Other Adul		•	0	0	2	0	0	0	0	0	0	. 0	0	· 2	1.000	1.000	1.000
Target to Student	. 3	•				0	0.	0	0	, O	0 ,	0	0	• 0	· ************************************	0.000	
Target to Tchr & Grp		+	0	0	0	•			0	0	1	0	1	. 2	0.000	0.000	0.000
Teacher to Target	. 5	+	, 0	0	0	0	0	0		·	•	0	0			***	****
Other Adult to Targe	\$ 6	+	0	0	0	0	0	0	0	0	•		_			20 00 00 00 00	
Student to Target	7	•	0	0	0	0	0	0	0	0	0	0	0	+ 21	,429	.619	.314
Teacher to Group	, 8	•	0	. 0	0	1	0	0	0	9	0	0,	11	•	• •••••	0.000	****
Other Adult to Group	9	•	0	0	0	0	0	0	0	0	0	0	0	• 0	•	0.000	0.000
Student to Group	10	•	0	1	0	0	0	0	0	0	0	0	1	• 5	• 0.000 •	.860	.621
None of the above	11	•	1	0	0	0	C	0	0	4	0	0	44	+ 49	• ,898 •	1000	•
•		**	++++	• • • • •	* ** *	****	* > * * *	****	+++ `+	*** **	****	****	****	********	• •		
Marginal To	tell	*	3	1	2	1	0	0	0	13	1	0	57	+ 76 +	♦ ♦		
		*	****	••••	*** *	****	****	****	****	****	****	****	****	*******	•	333	
										•						UUU	

337

Category Marginal Agreementi .345 Cohenia Kappai .455

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Table 174

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1976

Reliability on Interactions
Observer 20 Expert 80
School 801 Grade 2
Week 0 Day 5
DMP

Date: 06-25-79 Program: RELP98 Date File: RELD1

·	•	,		Cat	tegory	chos	en by	0686	Brver	50	٠		Margina)	Nominal	Marginai	Light's Extension
Category chosen by Expert 80	Cat.	•	2	3	4	5,	6	7	8	9	10	11	Totals	Agreement	Agreement	of Kappa
). 1.	******	*****	****	· • • • • •	*** **	****	****	• • • • • •	****	••••	*****	*********** ;*	•	•	
Target to Teacher	_	• 5	0	0	0	0	0	0	0	0	0	0	+ 5 ·	1.000	.667	1.000
Target to Other Adul	t 2	• 0	0	0	0 ,	0	0	0	0	C	0	0	• 0) -mmm==		*
Target to Student	- 3	• 0	0	5	. 0	0	. 0	. 0	. 0	0	0	0		1.000	1.000	1.000
Terget to Tchr & Grp		+ 0	0	0	0	0	0	O	0	0	0	0	• 0		****	****
Teacher to Target	_	+ 0	0	. 0	0	1	0	0	0	0	0	1	+ 5 +	.500	1.000	.487
Other Adult to Targe		÷ 0		0.	0	0	,0	0	. 0	. 0	0	0	+ 0	♦ ♦ •₽♥=₽♥	0.000	*****
		•	_	0.	0	0	0	0	0	0	0	0	• 0 /	♦ ••••••		****
Student to Target	,	•			_	,	0	0	17	, 0	0	2	+ " + 21	• • ,810	.875	.725
Teacher to Group	8	• '	0	,0	0		-			_	0	0	• 0	♦ •@₩₩₩₩	0.000	· ## ## ##
Other Adult to Group	9	• 0 •	0	C	.,0	0	0	0	0	0	•	•		♦ • •500	.500	,494
Student to Group	10	• 0 •	0	0	0	0	0	0	1	0	ı	0	•	• •	.657	.558
None of the above	11	• 0	0	0	0	0	5	0	6	2	0	39	+ 49	• ,796 •	• • • • • • • • • • • • • • • • • • • •	, 555
		*****	****	****	****	****	• • • • •	****	****	****	****	****	*********	♦		
4 Marginal To	tels	. 3	0	2	0	2	2	0	24	2	3	42	+ 78 ·	*		
		*	++++	****	++++	****	****	• • • • •	****	****	****	****	*******	• \		
								•							v	
	•				Car	tegor	y Mer	ginal	Agre	ement		12	ı	4		N

339

340

į

Table 175 '

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978 Date: 06-25-79 Program: RELP9S Data File: RELD1

Reliability on Interactions
Observer 30 Expent 90
School 801 Grade 2
DMP

Category chosen Cate by Expert 90 W		1 ;		Cetego 3	ory c	howe 5	n by	06 0 07	er :	30 9	10	11	Marginei Totels	Nomina; Agreement	Merginel Agreement	Light's Extension of Kappa
Target to Teacher . 1	• •	0 (0 (0 , (D	0	0	0	Ø.	0	0	1	. 1	0,000	0.000	* 0.000
Target to Other Adult 2	+	0 _ (0 (0 (0	0	o o	• 4	0	0	. 6	1		0.000	0.000	0.000
Target to Student 3	•	0	0 :	1 (o ·	0	0	0	0	0	0	a .	3	.333	,333	,253
Target to Yohr & Orp 4	*	0 .	0 - (0	01	0	. 0	. 0	0	Ŏ.	0	0	0		*******	
Teacher to Target 5	•	0	0	0 (0.	.s ,	0	0	Ö	0,1	0	3/4	•	.500	1.000	. 475
Other Adult to Target 6	•	0	0 (0 (0	0	0	0	O	0	. 0	, 0	0	,		****
Student to Target 7	•	0	0 '(0 (0	0	0	0'	0	. 0	0	Ü	•2 0 •		0.000	7
Teacher to Group . 8	•	0	O .	0	0	0	0	0	0	0 '	0	0	• 0 •			
Other Adult to group 9	•	0	ď (0 ,	0	0	0	0	0.	0	0	0	• 0 • • •		9 4 4 4 4 W	
Student to Group 10	•	0	0	0	0	0	0	0	0	0	0	, 0	• • • • •		***	
None of the above: 11	•	0	0	8	0	2	0	2	0	0	0	63	+ 75 + + +	.840	.920	.104
Marginal Totals	***** * *	***** 0	***** C	9	**** 0 ·	•	• * • • • 0	5	0	• • • • • • • • • • • • • • • • • • •	0	69	• 84 •		9.40	
<i>A</i> 1	****	****	****	* * * * * ·	****	••••	*** *	*****	****	****	****	******	******		342	

341

Category Merginal Agraement: .37

Table 176

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1-72

Reliability on Interactions
Observer 10 Expert 90
School 801 Grede 2
Heek 0 Day 5

Date: 06-25-79 Program: RELP95 Data File: RELD1

Category chosen by Expert 90	Cat.	1	2	Cat	egory 4	cho8	en by	05891 7	rver 8	9	10	11	Merginei Totals	Nomine; Agreement	Margine! Agreement	Light's Extension of Kappa
		*****	****	*****	++++	****	4 4 4 4 4	****	****	****	***	• • • • • •	• • • • • • • • • • •			
Target to Teacher	1	• 1	0	0	0	0	0	0	0	0	0	0		1.000	1.000	1.000
	•	•	_					0	•	0	0	0		0.000	9.000	0.000
Target to Other Adul	6 5	• 0	0	0	0	0	0	U	•	•	•	•	•	•		900
Target to Student	3	• 0	0	1	0	0	0	0	0	0	0	2	. 3	, 333	.500	,282
10. 50. 10 0.000		•			_		_	•		0	0	0	. 0	50 AT 10 ET 10	***	***
Target to Tchr & Grp	•	• 0	0	0	0	0	0	0	0	U	v	V	•	ı		
Teacher to Target	5	• 0	0	0	0	0	0	0	•	0	0	0	• • •	0.000	0.000	9.000
reacher to larget		*					_	_	_			0	• 0			da en sá 🕳 dá
Other Adult to Targa	6 3	+ 0	0	0	0	0	0	0	0	0	0	v	•	,		
65.1.1.2.2.4.5. 8 0.8000	7	♦	. 0	0	C	0	0	0	0	0	0	0	. 0 4		0.00	****
Student to Target	•	•	•	•	•	•	·	·		_		_	•		0.000	₩ co (+ = =
Teacher to Group	8	• 0	0	0	Ō	0	0	0	0	0	0	0	• 0	,		
	_	♦ .	0	0	0	0	0	0	0	0	0	0	• 0		***	****
Other Adult to Group	9	♦ 0	v	v	v	U	•	•	•	•			•			***
Student to Group	10	• 0	0	0	0	0	0	0	0	0	0	0	+ 0 1	· ### 13 20 ##	00000	•
		•	•	5	0	. 0	9	,	0	0	0	69	+ 75	.920	.947	.483
hone of the above	11	• 0 •	0	9	v	. 0	V	•	•	•	•		•	•		
		*****	****	****	****	45+44	****	****	****	\$ ** **	****	+++++	******			
		•			•		o	•	5	0	0	71	84	•		
Marginal To		A	0	6	0	0	•	•	-	•	•		•			
		+++++	* * * * * *	*****		****	****		****	****	****	*****	******			

Category Merginal Agreement: .350

Cohen's Kappel ,362



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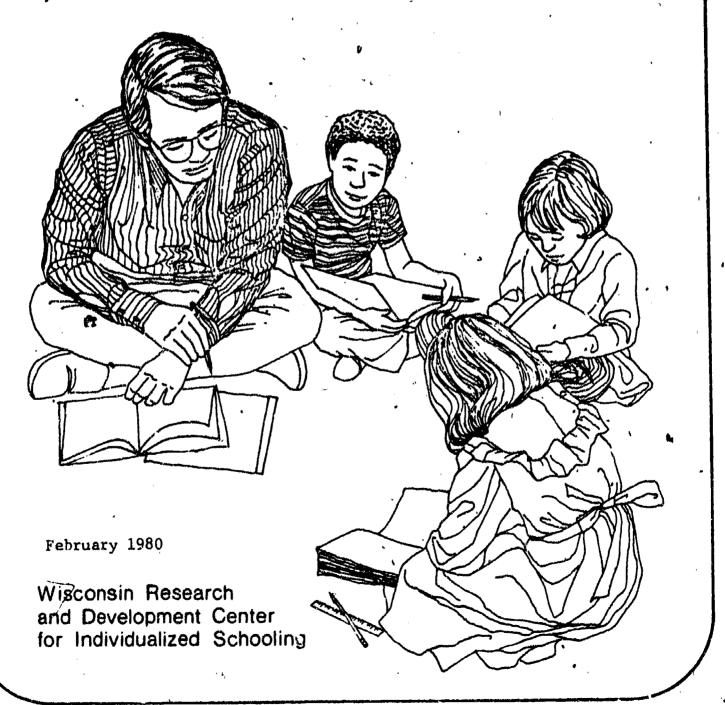


11/79

Phase IV Project Paper 79-25 Part 2 of 2 Parts

INTEROBSERVER AGREEMENT FOR THE OBSERVATION PROCEDURES FOR THE DMP AND WDRSD OBSERVERS DESCRIPTIVE STUDY

by Norman L. Webb



Phase IV

Project Paper 79-25
Part 2 of 2 Parts

INTEROBSERVER AGREEMENT FOR THE OBSERVATION PROCEDURES FOR THE DMP AND WDRSD OBSERVERS

DESCRIPTIVE STUDY

by

Norman L. Webb

Report from the 'IGE Evaluation Project

Thomas A. Romberg Work Group Chairman

Wisconsin Research and Development Center for Individualized Schooling The University of Wisconsin-Madison Madison, Wisconsin

February 1980



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Center Crant No. OB-NIE-G-80-0147

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- providing assistance to educators which helps transfer the outcomes of research and development to improved practice in local schools and teacher education institutions

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WISCONSIN RESEARCH AND DEVELOPMENT CENTER FOR INDIVIDUALIZED SCHOOLING



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Abstract

This project paper reports the interobserver agreements and reliabilities for the observation procedures used in the Descriptive Study of Phase IV of the IGE Evaluation Project. Only data from observers at the two DMP and two WDRSD schools are reported in this The four observers attended a four day training session, January 10-13 1978, to learn how to use the observation procedures. On March 16 and 17 a retraining session was held at the middle of the fourteen week investigative period to check on the interobserver agreements. In addition, on-site visits were made to each school by one of the Phase IV staff where both the observer and staff member did one or two observations together. Interobserver agreement and reliabilities were computed for each of these three situations -- training session, retraining session, and on-site visits. For each pair of observers and for each category, marginal agreements were computed. For the sets of categories--General Content, Pacing, Grouping, Materials, Learner Moves and Interactions -- Category Marginal Agreements and Cohen's Kappa were computed. Generalizability coefficients for estimates of reliability were computed for the training and retraining sessions for groups of three observers observing two or three classes for two days. The results indicated that there was high interobserver agreement at the three different check times on the categories of self-paced, otherpaced, individual, large group, paper/pencil, engaged-written, engagedcovert, and non-engaged off task. The low interobserver agreements



were explained mainly as a result of a low frequency of occurrence.

The generalizability coefficients for total engagement and total non-engagement were acceptable.

APPENDIX B

Contingency Tables for each set of Observation Categories for Pairs of Observers for the WDRSD and DMP Training Session (March 16 and 17 1978)



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Appendix B

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Table 177

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on General Content
Observer 10 Expert 90
School 801 Grade 5
Hack 9 Day 4
DMP

		Cat	: - 90ry	y chos	ien by	/ 0bs4	irver	10	Marginal	Nominel	Marginal	Light's Extension
Catagory chosen by Expert 90	Gat,	1	5	3	4	5	6	7	Totals	Agreement		
	•••	*****	, ***	· • • • • •	, *** *	· • • • • •	, *** *	*****	********	•		
walt	1 +	0	0	0	0	0	0	0	• 0	• ••••	************************************	
Transition	2 + +	0	2	0	0	. 0	6	0	. 2	+ 1.000	1.000	1,000
Management	* 3 *	0	0	1	0	0	0	0	1	1.000	1.000	1.000
Graa k	• • •	0	0	0	0	0	0	1	• 1	• 0.000	0.000	0,000
Nonscademic	• 5 •	0	o	0	0	0	Ģ	0	÷ 0	•	⊕ ⊕ ± ≠ ₩	·#**
Other Academic	•	0	C	0	0	0	1	0	• 1	. 1.000	1.000	1,000
None of the Above	7 •	0	0	0	0	0	0	- 85	• 85	÷ 1.000	,988	1,006
Holls of the Abort	•	-	* * * u *			****	••••	•••••	*	♦ • ♦		
Marginal Y	otal# +	0	2	1	0	0	1	86	÷ 90	•		
1	•									•		

Category Marginal Agreement: .796
Cohenis Keppe: .885

Table 178

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on General Content
Observer 20 Expert 90School 501 Grade 5
Week 9 Day 4
DMP

		Cat	egory	chos	en by	0b s e	rver	2 0	Marginel	Nominal	Marginel	Light 1 i
Category chosen by Expert 90	Cat.	1	5	3	•	5	6	7	Totals	Agreement	人名伊格鲁斯 亚马尔	of Kappe
	• • •	****	****	****	****	****	****	*****	******			
	•	0	0	0	9	0	0	0	• 0			
helt		0	2	0	0	. 0	0	0	+ 2	. 1.000	.500	1,000
Transition	, 2 +	·	•	•	0	.•	0	0	• 1	• • 0.000	0.000	0.000
Menagement 🤔	3 +	0	,	0	•	•	-	0	+	+ + 1.000	,333	1,900
8 r a a k	* *	0	0	0	1 /	0	0	_	• 0	+	- en to en to 10 ·	****
Nonecedemic	5 +	0	0	0	0	0	0	0	•	•		
	4	0	1	0	0	0	0	0	+ 1	+ 0.000	0.000	0.000
Other Academic	•	•	•	•	-				+ '85	• • ,976	,976	.697
None of the Above	7 +	0	0	0	2	0	0	83	+ 55	•	• • • •	
	••	*****		*****	****	++++	****	*****	****	•		
Marginal	Totals +		4	0	3	0	0	83	90	* *		

Cotegory Marginal Agreement: .362
Cohenis Kappal .452

Table 179

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on General Content
Observer 40 Expert 80
School 801 Grade 8
Week 9 Day 4

,		Cet	egory	chos	en by	0610	rver	Karginai	Nominel	Merginal	Light's Extension	
Gategory chosen by Expert 80	Cat.	1	2	3	•	5	8	7	Totals	Agreement	Agreement	O F . Keppe
	***	****	****	****	****	****	****	****	*****	•		
walt	1 +	3	0	O	0	0	0	4	• 7	429	.429	c 409
Transition	2 + +	0	1	0	0	0	0	2	* • 3	• • •333	.333	,326 🧸
Penagement	3 +	0	0	0	0	0	0	o ·	• • 0	* * *******	40 40 40 40	. ggs qg) (pp 10) 🖼
Break	4 +	0	0	0	0	0	0	0	• 0	• •====	*************************************	
honacadem) C	• 5 •	0	0	0	0	0	0	۵	+ 0	,	· 40 40 40 40 40	***************************************
Other Academic	\$ \$ •	0	0	Q	0	0	2	0	, 2	1.000	1.000	1.000
None of the Above	7 +	0	0	0	0	0	0	78	78	1.000	.929	1.000
•	* * * *		****	****	*****	****	++++	*****	******	•		,
Merginal 1	rotals +	3	1	0	0	0	2	84	• • 90 •	•		
	44		0++++	****	++++	****	****	+++++	****	•		•

Cotegory Marginal Admesment: .673
Cohenia Keppel .648

Table 180

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on General Content Observer 10 Expert 90 School 801 Grade 2 Week 9 Day 4 WDRSD

	• •	Cet	e 90FY	chos	en by	Obsa	rver	Wasalasi	Naminat	Maralani	Light's Extension	
by Exper: 99	Cat. #	1	2	3	4	5	6	7	Mergine! Totals	Nominel	Margina; Agraement	of Kappa
	, *	****	****	****	****	****	****	••••	******	•		-
welt	1 +	0	ō	0	0	(O	Ú	0	• 0	• — — — — — — — — — — — — — — — — — — —	0.000	
Transition	5 +	1	5	0	0	0	0	0	• 6		1.000	,617
Panagement	3 +	0	0	0	0	ð	0	. 4		0,000	0.000	0.000
870ak	+ 4 +	0	0	r 0	0	0	0	0	+ 0	• •••••	0.000	· # # # # # #
Nonacademic	⋄ 5 +	0	0	0	0	0	b	0	• n	+	***	.
Other Academic	• 6 •	0	0	0	0	, O	0	0	+ U)	40 gas day 100 100 - 1	
None of the Above	* 7 *	0	1	0	1	0	٨	54	+ 56	• • ,964	, 766	.708
	•				••••		••••	•••••	•	•		
Harginal	Totels +	1	6	0	1	0	0	8.7	÷ 66	• •		

Category Margine! Agreement! •393 Cohen: Kappa: •569

Table 182

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on General Content
Observer 20 Expert 90
School 801 Grade 2
Week 9 Day 4
WDRSD

• •	Category chosen by Observer 20								Nonlant	Manglasi	Light's Extension
Cat.	1	5	3	4	_. 5	6	7	Totals	Agreemant	Agreement	of Kappa
**	*****	4 + + +	****	****	****	****	****	******	•		
1 +	0	0	0	0	0	0	0	÷ 0) commons	(F) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S	-
5 + +	0	6	0	0	0	0	0	• 6	1.000	.857	1.000
3 +	0	0	1	0	0	0	3	•	.250	.500	,227
• •	0	0	0	0	0	0	0	• 0	******	0.000	and date state and and
5 +	0	0	Q.	0	0	0	0	•	, 	, (80 SE vap (80 F)	· 100 00 00 00 00
6 +	0	0	0	0	0	0	. 0	• 0	*******	. 49 40 40 40 W	· 新 · · · · · · · · · · · · · · · · · ·
7	0	1	1	1	0	0	53	56	,946	1.600	,646
**	****	****	****	****	****	****	****	*****			
Totals +	0	7	2	3	0	0	56	. 66			1
	3 +	Cat. # 1 	Cat. # 1 2 **********************************	Cat. # 1 2 3	Cat. # 1 2 3 4 1 0 0 0 0 0 2 0 6 0 0 3 0 0 1 0 4 0 0 0 0 0 5 0 0 0 0 0 7 0 1 1 1	Cat. # 1 2 3 4 5 1 + 0 0 0 0 0 0 2 + 0 6 0 0 0 3 + 0 0 1 0 0 4 + 0 0 0 0 0 0 5 + 0 0 0 0 0 0 7 + 0 1 1 1 0 + + + + + + + + + + + + + + + + + +	Cat. N 1 2 3 4 5 6 1 0 0 0 0 0 0 0 2 0 0 0 0 0 0 3 0 0 0 0 0 0 4 0 0 0 0 0 0 0 5 0 0 0 0 0 0 0 7 0 1 1 1 0 0	Cat. N 1 2 3 4 5 6 7 1 0 0 0 0 0 0 0 0 2 0 6 0 0 0 0 0 0 3 0 0 1 0 0 0 0 0 4 0 0 0 0 0 0 0 0 5 0 0 0 0 0 0 0 0 7 0 1 1 1 0 0 53	Tatals 1	Cat. N 1 2 3 4 5 6 7 Totals Nominal Agreement 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cat. N 1 2 3 4 5 6 7 Totals Agreement Agreement 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Category Marginel Agreement: .589

Cohenis Kappel .662

Table 181

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on General Content
Observer 40 Expert 80
School 801 Grade 2
Week 9 Day 4
WDRSD

		Cat	ag ory	chos	en by	Obse	rver	40	Margin	ei Nominal	Margina; Agreement	Light's Extension of Kappa
Category chosen by Expert 80	cat.	1	2	3	4	5	6	7	Total			
	++	****	****	****	****	++++	****	****	*****	***		
wait	• 1 •	3	0	0	0	0	, O	0	• 3	1.000	1,000	. 1,000
Transition	s +	0	0	0	0	Q	0	. 0	• •	* • • • • • • • • • • • • • • • • • • •	*****	(II (III (II (II (II (II (II (II (II (I
Panagement .	* 3 *	0	0	0	0	0	0	0	• 0	• 600000	w=====	· ** ** ** ** **
Break	• •	0	0	0	0	0	0	0	• 0	• •	~===	****
Nonacademić	* 5 *	0.	0	0	0	0	0	0	• 0	4 •••••	99 (\$P 00) LLE (\$P	
Other Academic'.	6 •	0	0	0	0	0	15	O	15	1.000	1.000	1.000
None of the Above	* *	0	0	0	0	0	0	42	42	1,000	1.000	1,000
	•		• • • • •			++++	* * * * *	****	•••••	***		
Marginal ¹	rotels •	3	0	0	0	0	15	42	• 60	•		
	* *	****	• • • • •	****	****	****	*****	• • • • •	• • • • • • • •	***		

Category Margine! Agreement: 1.000

Cohents Kappel 1.000

Table 183

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on General Content
Observer / Expert 90
School 801 Grade 2
Week 9 Day 4
DMP

•		Cat	eg ory	chos	en by	0586	rver	40	No select	Nominai	Herginal	Light's Extension
Catagory chosen by Expert 90	Cet.	1	5	3	4	5	6	7	Merginal Totals	Agreement	Agreement	of Kappa
	**	*****	****	****	****	****	****	*****	******	•		
walt	1 +	0	0	Ú	0	0	0	ø	• 0	****	୍କୁ 0.000	
Transition	\$ +	1	4	0	0	0	0	0	. 5	.800	.800	,790
	3 +	0	0	2	0	0	0	0	+ 5 4	1.000	,667	1.000
Panagement	•	-	·			0	0	0	• 0	, 		·*************************************
Break	4 +	0	0	0	0	_	_	·	•	•		
Nonacademic	5 +	0	0	0	0	0	0	0	+ 0 4	, wassa (5 0000	•
Other Academic	6 +	0	0	0	0	0	0	0	+ 0		- din een din can gy :	
None of the Above	7 •	0	0	1	0	0	0	76	• / 77	,987	,987	,064
	•	****	***	****	****	• • • • •	****	*****	• • • • • • • • • •			
merginal '	+ + # # # # # # # # # #	1	4	3	0	0	0	76	. 84			
	•							• • • • • •	•	•		

Cetegory Marginal Agreement: .613
Cohen:s Kappa: .857

Table 184

Reliability on Genera' Content Observer 20 Expert 90 School 801 Grade 2 Week 9 Day 4 DMP

Category chosen		Cet	egory	chos	en by	0bs6	Prver	50	Marginai	Nominal	Marginal	Light [†] S Extension
Category chosen by Expert 90	Cat.	1	. 5	3	4	. 5	6	7	Totale	Agreement	Agreement	of Kappa
	•	******	****	****	****	****	***	*****	*******	•		***
welt	1 +	0	Ō	0	0.	0	0	0		,	· • • • • • • •	· 40 mm am 40 mm
Transition	5 + +	0	.5	0	. 0	0	0	0	5	1.000	1.000	1.000
Penagement	٠ 4 و	0	0	2	0	0	0	0	2	1.000	.667	1.000
Breek	• • •	0	0	0	0	0	0	0	• 0	, wa-wa	***	· (4) (5) (4) (5) (6)
Nonecedemic	♦ 5 ♦	0	0	0	0	0	0	0	• 0	****	· • • • • • • • •	40 to 10 TH
Other Academic	6 +	. 0	0	0	0	0	0	0	• 0) -⊕\$###\$:		· 🕸 🕸 47 🕾 📆
None of the Above	. 7 +	. 0	0	1	0	0	0	76	† 77	,987	, 987	. 864
,	*	. * * * * * * * *	****	••••	****	****	****	*****	******			
Marginel 1	+ elafo'	, • •	5	3	0	0	0	76	. 84			
ŕ	•		****	• • • • •	****	****	****	*****	******	•		

Cetegory Marginal Adresment: .885

Cohenia Keppel .928

Table 185

phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on General Content
Observer 20 Expert 80
School 801 Grade 2
Week 9 Day 4
DMP

•		Cat	egory	chos	en by	Obs•	rver	10	Marginal	Nominal	Marginal	Light's Extension
Cetegory chosen by Export 80	Cat.	1	5	3	•	5	6	7	Totals	Agreement	Agreement	of Kappa
	•	*****	****	****	****	****	****	****	++++++	•		
Wait	1 +	1	• 0	0	0	0	0	0	†	1.000	1.000	1.000
Transition	2 +	0	0	0	0	0	0	0	• 0	+ ******	ÇE MI No EP ∰ 1	
Hanagement	3 +	0	0	·. •	0	0	0	2	÷ 8	• 0.000	0.000	0.000
Breek	*	0	0	0	0	ð	0.,	1	1	• 0.000	0.000	0,000
honecademic	.5 •	0	0	c	0	0	0	0	• 0	4	· 44 40 40 40 47	
Other Academic	6 +	0	0	0	0	0	0	0	• 0	* ·nares	· ## # ## ## ## •	
None of the Above	7 •	0	0	C	0	0	0	74	74	1.000	,961	1.000
_	•		* * * * * *	· • • • • •	****	****	• • • • •	*****	*****	•		
Mareinai: To	+ + = { = p	7	0	0	. 0	0	0	77	+ + 78	•		
	•	· •	****	• + + + • •	· • • • • •	****	• • • • •	****	******	••	\	

Category Marginal Agreement: .490
Cohen's Kappa: .392

Table 186

Reliability on General Content Observer 10 Expert 90 School 801 Grade 5 Week 9 Day 5 DMP

Category chosen		Cat	egory	chos	en by	0510	rver	10	Ma-alani	Nominai	Méroinel	Light's Extension
by Expert 90	Cat.	1	5	3	4	5	6	7	Margina; Totals	Agreement	Agreement	of Kappa
	**	*****	****	****	****	****	****	*****	•••••	•		
Not t	1 +	0	0	0	0	0	0	0	. 0	***************************************		. 40 40 40 40 60
Transition	2 + +	0	4	0	0	0	0	0	•	1.000	1.000	1.000
Hanagement	* 3 *	0	0	5	0	0	0	1	+ 6	. 833	, 033	,824
Break	*	0	0	ø	2	0	0	٦	• 3	•667	.667	,659
Nonecademic	* 5 *	0	o	0	0	0	0	. 0	+ 0) — — — — — — — — — — — — — — — — — — —	#######	
Other Academic	• • •	0	0	0	0	0	0	0	• 0	· · · · · · · · · · · · · · · · · · ·		. as as as as as
None of the Above	*	0	0	0	0	0	0	77	• 77	1.000	.975	1.000
Maria of the Misore	•								•		• • • • • • • • • • • • • • • • • • • •	
Marginal	Totals +	0	4	5	2	0	0	79	+ 90	•		

Category Marginel Agreement: .869
Cohenis Kappel 6 608



Table 187

Phese IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on General Content Observer 20 Expert 90 Schoo! 801 Grade 5 Week 9 Day 5 DMP

		Cat	e gory	chos	en by	0b#0	rver	20	Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expert 90	Cat.	1	5	3	4	5	6	7	Totals	Agreement	Agreement	of Keppe
•	**	+++++	++++	****	****	****	++++	****	******		•	
va16	1 •	0	0	0	. 0	0	0	0	• 0			
walt	2 +	0	4	0	0	0	0	0 .	• •	1.000	1.000	1.000
Transition	•	•	·	-		0	0	0	• 6	1.000	1 + 000	1,000
Hanagement	3 +	0	0	6	0	_	•		• 3	,667	,667	.659
Breek	* *	0	0	0	2	0	0	1	•	•	,	•
honacademic	5 +	0	0	0	0	0	0	0	+ 0		****	·******
Other Academic	6 +	0	0	0	0	0	0	0	• 0	• • •	· 🕶 📾 🗢 (2 🔞 ·	· ## ## ## ##
None of the Above	7 +	0	0	0	0	0	0	77	77	1.000	,987	3.000
HONE OF THE ROOTS	•								* *******	+ +		
Marginal 1	** * *****	0	4	6	2	0	0	78	• 90	•		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•		••••	••••	****	****	****	****	* *******	* *		
,	**	****		• • •								

Catagory Marginal Agreement: .913 Cohente Kappel .956

Table 188

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

>

Reliability on General Content
Observer 30 Expert 80
School 801 Grade 5
Waek 9 Day 5
DHP

		Cat	egory	chos	en by	0bs4	rver	30	Marginal	Nominel	Marginal	Light's Extension
Category chosen by Expert 80	Cat.	1	2	3	4	5	6	7	Totals	Agreement	Agreement	of Kappa
	* *	****	****	****	***	****	****	****	*****	•		
Wait	1 +	0	0	0	0	0	0	0	• 0	• • ====	. (#) (#) (#) (#) (#)	*****
Transition	5 + +	0	0	0	0	0	0	1	1	0.000	0,000	0.000
Management	3 +	0	•	0	0	0	0	0	• 0	▼ 	-eoos=	, ₍₂₅ an (46 T)
Break	4 •	0	0	0	0	0	0	0	• 0	·	· • • • • • • • • • • • • • • • • • • •	***
Nonecademic	5 +	0	0	0	0.	0	0	1	1	0.000	000	0.000
Other Academic	6 +	0	0	0	0	0	0	0	• 0	• •	(p) (p) (p) (p) (b)	/ graph = 10
None of the Above	7 •	0	0	0	0	0	0	68	+ 88	+ 1.000	,978	·*****
,	•	• • • • • •	• • • • •	++++·	++++	****	** ***	• • • • •	******	•		
, Mercinal '	Totals +	0	0	0	0	0	0	90	+ + 90	• •		

catagory Marginal Agraements .386 Cohenes Kappel 6.000 358

ERIC Full Text Provided by ERIC

Table 189

Phase IV - IGE Evaluation Project

Descriptive Study - Spring 1978

		Cat	egory	chos	en by	0610	rver	40 ′	Marginal	Nominel	Merginei	Light's Extension of Kappa
PA Erment 80 Category Chosen	cat.	1	5	3	4	5	6	7) 	Total #	Agroument	Agraement	
•	,5 ++ *-+	*****	****	****			•	****/ <i>}</i>	• 0		# w = •	
weit	1 +	0	0	0	0	0	0	0	•	1.000	1.000	. 1.000
Transition	5 +	. 0	1	0	0	0	0	/ 0	• 0	h		?* •• •• •• ••
Henegement	3 +	0	0	0	0	0	0	, 0	• 0	• • •	0,000	, ₁₀ 10 10 10 10
Break		0	0	0	5 0	0	/0	0	•	• 0.000	0.000	0.000
Nonecademic	5 +	0	0	0	1	0	0	0	• 17	+ 		
n geher Academic	6 +	0	0	0	0	0.7	0	0	+ ***O	♦	1,000	1,000
None of the Above	7 +	.0	0	0	0	0	0	66	+ 8B +	+ 1.000	1,000	
	•	*****	****	****	****	****	****	*****	*********	*		
Marginal	+ * * * * * * * * * * * * * * * * * *	•	1	0	1	'n	0	68	90	•		ч
	•		****	****	****	****	***	+++++	******	•		

Category Marginal Agreement: .500

Cohenis Kappel .746

Table 190

1		Cat	egory	chos	en by	0b8	Bryer	10	Marginai	Nominal	Marginal	ilghtis Extension
by Expert 90	Cat.	1	5	3	•	5	6	7	Totels	Agreement	Agréement	of Keppe
•	+ + +	· • • • •	****	****	****	***	****	*****	· · · · · · · · · · · · · · · · · · ·) •	1	
HOIT	1 +	0	0	0	0	0	0	0 '	• 0) / waaaa		
	* 2 *	o		0	0	0 -	0	<u>.</u>		1.000	1.000	1.000
Transition	•	_		•	•	•	0	. 0	÷ 3	• • 1.000	1.000	1,000
Management .	3 +	0	0 .	3	0	0	U		•	• 0.000	0.000	0.000
Greak	4 +	0	0	0	0	, ,	0	1	* * * * * * * * * * * * * * * * * * *	+ 0,000		
Nonacademic	5 +	U	0	0	. 0	. 0	. 0	, 0	• 0	•	⊕ ₩ ₩ ♥ ₩	6 5 -
()	6 +	0	0 5	0	0	0	. 0	. 0	• 0	• •••••		****
Other Academic	•	•	•	•	o	0	0	58	+ + 58	+ 1.000 °	, 963	1,000
None of the Above	∀ ♦	0	0	C	v	v	;		•	• .		
	••	****	++++	* * * * * *	****	* * ;* * *	* * * * *	*****	*******	*		
Merginel T	otals +	0	4	3	0	0	0	59	. 66	♦		

Category Marginal Agreement: .746

Cohen's Kappal



Table 191

Reliability on General Content
Observer 20 Expart 90
School 801 Grade 2
Week 9 Day 5
WDRSD

Category chosen		Cet	e gory	cho»	en by	0686	rver	20	Marginal	Nominal	Marginel	Light's Extension
Catagory chosen by Expert 90	Cat.	1	2	3	•	5	6	7	Totals	Agreement	Agreement	of Kappa
	• • •	****	****	+ + + + +	* * * * *	****	****	*****	********	•		
watt	1 +	0	0	0	0	C	0	0	•	ga tap ear wa apr	an an an 40	60 de 40 de 25
Transition	5 + +	0	4	0	0	0	0	0		1.000	1.000	1.000
Henagement	3 +	0	0	3	G	0	0	0		3.000	1.000	1.000
		0	0	0	1	0	o	Ġ	• 1	1.000	1.000	1.000
Break	* 5 *	0	0	0	0	0	0	0	• 0	*****	. gag and typ 600 600	p == ==
Nonecademic	•	0	0	0	Ċ	0	0	e	+ 0) 	***************	***
Other Academic	6 +	_		ņ	0	0	0	56	+ 58	1.000	1.000	1,000
None of the Above	γ •	0	0	v				, 	*			
	• • •	++++	* * * * * *	****	, , , , ,	· • • • •	* * * * *	*****	4	•		
Marginal '	totels *	0	4	3	ì	0	0	56	+ 66	~ ♦		

Category Merginal Agreement: 1.000

Cohenia Kappat laudo

. 9.

Table 192

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reilability on General Content Observer 30 Expert 80 School 801 Grade 2 Week 9 Day 5 WDRSD

Patagory chosen		Cat	a gory	chos	en by	0696	rver	30	Marginal	Nominal	Margine;	Light's Extension
Category chosen by Expert 80	Cet.	1	\$	3	4	5	6	7	Totals	Agreement	Agreement	of Kappa
	•••		****	****	****	++++	*****	*****	*****	•		
	.1	0	0	0	0	0	o	0	. 0) 	####	***
welt	•	v	•	_	-	_	_	2	•	, 500	.500	,483
Transition	5 +	0	5	0	0	0	0	•	•	•	- W W W	
Managament	3 +	0	0	0	0	0	0	0	+ 0	,	44	
	4 +	0	0	0	0	0	0	0	• 0		COP WH NO 600 CD	***
Orenk	•	0	C	0	0	0	0	0	• 0		age see ale tale (ij)	****
honecademic	5 ÷	v	U	•	•			_	+ 0	•	. ag ap ap == 10 ·	-
Other Acedemic	6 +	0	0	0	0	0	0	0	•	•		
None of the Above	7 +	()	0	0	0	0	0	56	+ 56 +	+ 1.000 +	,966	1.000
	+					****	****	*****	*******	+		
Wardina ti	total# +	0	5	0	Q	0	0	58	• • 60	• •		
	•		****	****			****	****	******	•		

Category Marginal Agreement: .733

Cohenia Keppel .651



Table 193

Reliability on General Content
Observer 40 Expert 80
School 801 Grade 8
Week 9 Day 5
WDR5D

		Cet	eg ory	chos	en by	0b s	rver	4 0	Marginal	Nominal	Merginel	Light's Extension
Catagory chosen by Expert 80	Cat.	1	,2	3	4	5	6	7	Totals	greement	Agreement	of Kappa
	• •	*****	****	****	****	4+++	****	*****	• • • • • • • • • •	•		
Weit	1 +	0	0	0	0	0	0	0	• 0) ye hê 40 sê	in m m m 🖨 .	***
Transition	5 +	0	5	0	0	0	0	2	4	.500	.500	,483
Management	3 +	0	0	0	0	0	0	ø	•	, , , , , , , , , , , , , , , , , , , ,	20 40 40 W	, ₍₁₎ , (2), (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
Break	4 +	Ü	0	0	o	0	0	0	. 0	, Marie 100 marie 100	ran dan lan 700 👑	# 40 G EJ #4
Nonacademic	• 5 •	0	0	0	0	0	0	0	• 0		***	***
Other Academic	6 +	0	0	0	0	Q	0	0	0			· es que se es es es
None of the Above	7 •	0	ø	ø	0	0	0	56	+ 56	1.000	,966	1,000
	•		• • • • •				****	*****	****	•		
Marginal T	ot#1# +	0	2	0	0	a	0	58	• 60 •	& ♦		
1	•						++++		******	•		

Category Margina; Agreement: .733

Cohents Kappa: .651

Table 194

Reliability on General Contant
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 5
DMP

Çatagory chosan		Cet	egory	chos	en by	0686	rver	10	Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expert 90	Cat.	1	2	3	4	5	6	7	Totals	Agraement	Agreement	of Kappa
	* * 		****	++++	****	****	****	****	******			
	•	0	0	o	0	0	0	0	• 0	* ************************************		****
Welt	1 +		v		·		•	,	• 5	• • •800	1.000	.787
Transition	2 +	0	4	0	0	0	0	4	•	.	ი.000	
Henegement	3 •	0	0	0	′ ()	0	0	0	• 0 •	•		
treak	4 .	0	0	0	0	0	0	0	• 0	\$ ######	0,000	
	* 5 *	0	0	0	0	0	0	5	. 5	+ 0.000	0.000	0,000
Nonecadiemic	•	•	0	0	0	0	0	0	+ 0	+ ****	10 to 10 to 10	-
Other Academic	6 + +	0	V	U					• • 77	• ,961	1.000	, 532
Name of the Above	7 +	0	1	1	λ	0	0	74	•	•		**
	* *	****		****	• • • • •	* * * * *	****	*****	******	•		
Marginal T	otals +	0	5	1	1	0	¢	77	84	* *		
	•		****	****	****	****	****	****	********	•		

Cohenia Kappal .543



Table 195

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on General Content
Observer 20 Expert 90
School 801 Grade 2
Heek 9 Day 5
DMP /

Cetegory chosen		Cat	19 07	chos	en by	0680	rver	50	Marginal	Nomiral	Merginal	Light's Extension
Getegory chosen by Expert 90	Cet.	1	2	3	4	5	6	7	Totals	Agreement	Agreement	of Kappa
	• • •	****	****	****	****	****	****	*****	****	•		
walt	+ 1 +	0	0	0	0	0	0	0	. 0	******	pp. 100 to 100 MB	de de de qu
Trensition	5 + +	0	5	0	O	0	0	0	• <i>5</i>	1,000	.714	1,000
Management	÷ 3 +	0	0	o	0	0	0	O	+ 0) 	0.000	***
Breek		0	0	0	0	0	0	0	• 0		0.000	新藤神歌歌
Nonecadamic	• 5 •	o	0	0	0	0	o	2	. 2	0.000	0.000	0,000
Other Academic	6 •	0	0	o	υ	0	0	n	+ 0	Martin de de de	40 to 10 To 10	- 30 MB SP-40 KA
None of the Abova	7 4		2	1	1	O	0	73	+ 77 ·	, , , , 4.6	.974	.515
	* **		* * * * *	. + + + + .	****	****		+++++		•		
Marginal `	Totals +	0	7	1	1	0	9	75	* 84	• •		
	**	****	* + + + + •	• • • • •	• • • • •	****	• • • • •	****	******	•		

Category Margins! Agreement: +338

Cohenia Kappai .556

Table 196

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1976

Reliability on General Content
Observer 30 Expert 6.0
School 801 Grade 2
Week 9 Day 5
DMP

A.A.	A -A	Cat	egory	chos	en by	0584	rver	30	Monglook	Nominal	Marginal	Light's Extension
Catagory chosen by Expert 80	Cat. #	1	2	3	•	5	6	7	Mergina; Totals	Agreement	Agreement	of Kappa
	• •	*****	****	****	****	****	****	• • • • • •	*******	•		
No.i t	1 •	0	. 0	0	0	0	, O	0	• 0			No tipe tipe tipe file
Transition	2 +	0	3	0	0	0	0	0	3	1.000	1.000	1,000
Henagement	3 +	9	0	0	0	0	0	0		, , , , , , , , , , , , , , , , , , , ,	w m m m W	: - (p) (p) (m) (m) (p)
Dreak	.	0	0	0	O	0	C	0		, , , , , , , , , , , , , , , , , , , ,	age day one may 100	(a (a 4 4 4 4
honecadamic	5 +	0	0	0	O	0	0	0		yea tire tille men dila	gar das uns den 123	***
Other Academic	6 +	0	0	0	0	0	e	0		, , , , , , , , , , , , , , , , , , , ,	ga) qui rea san 100	· (a) (a) (a) (a) (b)
Hone of the Above	7 •	0	0	0	0	0	0	81	81	1.000	1.000	1,000
	• • • •	• • • • •	****	****	* * * * ·)	****	> → → ⊕ → +	*****	*******			
Marsina: T	* * * * * *	0	3	0	0	0	9	51	. 84	•		
			****		****	****	****		******	•		

Category Margina: Agreement: 1.000

Cohents Kappat 1.000



Table 197

Phase IV - IGE Evaluation Project

Reliability on General Content Observer 40 Expert 80° School 801 Grade 2 Week 9 Day 5 DMP

Descriptive Study - Spring 1978

`		Cet	egor	chos	en by	0b s =	rver	40	Marginal	Nominal	Marginal	Light's Extension.
Category chosen by Expert 80	Cat.	1	5	3	4	5	6	7	Totals	Agraement	Agreement	of Kappa
	••	*****	****	****	++++	****	****	*****		•		
vala.	•	0	0	0	0	0	0	0	• 0			. es de 101 💳 195
Welt	5 +	0	3	0	C	0	0	0	+ 3	1.000	1.000	1,000
Transition	•		-		0	0	0	0	• 0) 	***	· eps ess ess ess es
Management	3 +	0	0	0		-	-	•	+ 0		m • • • •	
8reak	4 +	0	0	0	0	0	0	0	•	•		
Nonacademic	5 +	0	0	0	0	0	0	0	• 0	• • • • • • • • • • • • • • • • • • •	10 pp 10 th th	****
Other Acedemic	6 +	0	0	0	0	0	0	0	• 0			· · · · · · · · · · · · · · · · · · ·
None of the Above	7 •	c	0	0	0	0	0	61	+ 61	1.000	1.000	1.000
	••	****	* * * * *	• • • • •	****	****	****	*****	******	•		
Harginal 1	rotal# +	0	3	0	0	0	0	61	• • 84	* * *		
	•	****	• • • • •	++++	****	• • • • •	• • • • •	*****	******	•		

Category Marginal Agreement: 1.000

Cohen:s Kappa: 1.000



379

Table 198

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Pace
Observer 10 Expert 90
School 801 Grade 5
Week 9 Day 4

CMP

			egory ()bserve		1					Lightis
Catagory chosen	Cat.				M	argini		Nominal	Marginal	Extension
by Expert 90	Ħ	. 1	5	3		Totals	3	Agreement	Agreement	of Kappa
•		+++++	* + + + + •			++++	. . .			
	,	• /			•	, , , , , ,	• · · ·			
Self	1	• -	4	0	+	82	+	.951	.988	.512
		•			•		•			
Other	5 .	٠ 5	1	0	+	3	+	.333	.600	, 294
		•			•		•			
Neither	3 ·	1	0	4	+	5	+	.800	.800	.791
	•	+			•		•			
	•	+++++	+++++	++++	+++	+++++	++			
	•)			+		+			
Marginal To	tais		5	4	+	90	*	•		
	•		+++++	++++	+++	+++++	++			

Category Marginal Agreement: .796

Cohen's Kappai .557



Table 199

Reliability on Pace
Observer 20 Expert 90
School 801 Grade 5
Week 9 Day 4
DMP

			ory c					Nom! = 0 !	Marginai,	Lightis Extension
Category chosen	Cat. #	1	2	3		argins Total	ı	Nominal Agreement	Agreement	of Kappa
by Expert 90	**	•			٥		••			
	•	• • • • • • • • • • • • • • • • • • •	, , , , , ,	****		, , , , , ,				
Self	1	• • 80	0	5	+	82	+	,976	.988	.686
	` .	•		•	*	3	+	0.000	0.000	0.000
other	2 .	3	0	0	▼	J	_	0.000		•
Neither	3	• • 0	0	5	*	5	*	1.000	.714	1.000
	•	•			•		*			
		+++++	++++	++++	++++	+++++	++			
Marginal	Totals	• • вз •	0	7	* +	90	+ + +			
		++++++	+++++	++++	+++	++++	++			
				(

Category Marginal Agreement: .567

Cohenis Kappai -.643

Table 200

Reliability on Pace
Observer 40 Expert 80
School 801 Grade 5
Week 9 Day 4
DMP

		by		erve					,	Lightis
Category chosen by Expert 80	Cat,		1	2	3		Marginal Totals	Nominal Agreement	Marginal Agreement	Extension of Kappa
S		++++	+++	* 	+++	+++	· + + + + + + + + + + + + + + + + + + +	•	•	,
Self	1	÷ 2	7	2	0	+	29	.931	.879	.891
other	5	* *	4	45	0	~ `	49	.918	.961	.812
Neither	3	* *	2	4	6	* +	12	•500	.500	464
		* + + + + + + + + + + + + + + + + + + +	++++	++++	+++	• + + •	++++++	` } }		
Marginal To	tals	÷ 3	3	51	6	+	90	· •	·	
		++++	+++	++++	++++	+++	· • • • • • • •			

Category Marginal Agreement: .780

Cohenis Kappal .764

Table 201

Reliability on Pace
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 4
WDRSD

Category chosen	Çat.		egory Observ	chosen er 10	Marginal	Nominai	Marginal	Light's Extension
by Expert 90	#	1	. 2	3	Totals	Agreement	Agraement	of Kappa
		+++++	*****	+++++	++++++	.		
s,e I f	1	* * •	s 2	0	+ + B	+ + .750	.875	,720
other	5	+ + (+ ,	46	0	+ 46	+ 1.000	•902	1.000
Neither	3		3	8	+ 12	+ .667 +	.667	,621
		* +++++	+++++	+++++	+++++++	. .		
Marginal To	tale	* *	7, 51	8	+ 66	• •		
	,	* * * * * * * *	*****	+++++	******	*		

Category Marginal Agraement: .815

Cohen's Kappai .787

Table 202

Reliability on Pace
Observer 20 Expert 90
School 801 Grade 2
Week 9 Day 4
WDRSD

			pary (Lightis
Category chosen by Expert 90	Cat'.	1	S	3	Margi Tota		Nominal Agreement	Marginal Agreemant	Extension of Kappa
		++++++	++++	+++++	+++++	+++			
Self	1		1	, 1	+ + 8	· •	.750	1.000	.716
other	2		44	0	+ 46	` +	.957	• 958	.841
Neither	3	• • 0 •	3	9	+ 12	* *	.750	.833	.705
		· ++++++	++++	+++++	++++++	++++			
Marginal To	otals	+ 8 +	48	10	+ + 66 +	* *			4 *
		+++++	++++	+++++	*****	++++			

Category Marginal Agreement: .931

Cohents Kappal .765

387

Table 203

Reliability on Pace
Observer 40 - Expert 60
School 801 - Grade 2
Week 9 - Day 4
WDRSD

		(atek	, doru e	hoser	,			وس		
•	4	ŀ		serve							Lightis
Category chosen	Cat.						argine		Nominal	Marginal	Extension
by Expert 80	#		1	5	3		Total	3	Agreement	Agreement	of Kappa
• • • • • • • • • • • • • • • • • •		+++	+ + + +	* + + + +	++++	+++	++++	+++			
		• .				+		+	•		
Self	1	*	5	0	0	+	5	+	1.000	.556	1.000
Òther	2	+	4	33	0	*	37	+	.892	.892	.760
1		♦				•		+			
Neither	3	+	0	0	18	+	18	+	1.000	1.000	1.000
	-	* ***	*	* + + + +	++++	• + + +	* * * * * *	+++			•
		+	V			*		+			!
Marginai Tot	0 5	•	9 ,	33	18	•	60	+			ĺ
		+				•		•			
		+++	+++-	++++	++++	+++	++++	+++			
•											

category Marginal Agreement: .816

Cohen's Kappa; .881

Table 204

Reliability on Pace
Observer \O Expert 90
School 801 Grade 2
Week 9 Day 4
DMP

					hosen r 40				Ç	,	Lightis
Category chosen	Caty	, ,,				•	Margina	ŧ.	Nominal	Marginal	Extension
by Expert 90	#		1 🔨	5	3 '	•	Totals	•	Agreement	Agreement	of Kappa
		++++	++++	: 4 + + + +	++++	+ + •	++++++	++			
		+	.	•2		+		•	?		
Self	1	+	8 4	5	1	+	70	•	.914	•957	.576
		+	`			+	*	+		-	= 0.0
other	2	+	3	4	,0 ~	•	7	+	.571	.778	.520
	_	+	_	_	/_	+		+		07E	1 000
Neither	3	+	0	0	A T	+	7	+	1.000	. £75	1.000
• •		+									
		++++	++++	++++	*****	++.	*****	++			
·		+		_	_	*		•			
Marginal T	otals	+	67	9	8	•	84	+			•
		+			•	+		. •	,		
		++++	++++	++++	++++	++	++++++	++			

Category Marginal Agreement: .870

Cohen's Kappa: .664

391

Table 205

Reliability on Pace
Observer 20 Expert 90
School 801 Grade 2
Week 9 Day 4
DMP

			abry c		1	<i>,</i>		Lightis
Category chosen by Expert 90	Cat. #	. 1	· 5	3	Marginal Totals	Nominal	Marginal	Extension
5, Exec, 6, 90	. **	•	, ,	3	locals	Agreement	Agreement	of Kappa
,	•	*****	+ + + + +	++++	++++++++			·
Self	1 +	. 69	0	1	+ 70	986	• 959	.891
Other	2 +	4	3	0	÷ 7	.429	,429	.407
Neither .	3 +	Ó	0	7	+ 7	1.000	.875	1.000
,	*	+++++	++++	++++	++++++++		,	
Marginal T	+ + ota : +	73	3	8	+ 84	•	*	
<i>'</i>	+	*****	++++	++++	+ + + + + + + + + + + + + + + + + + + +	• •	1	

category Marginal Agreement: .754

Cohen's Kappa: .775

395

Table 206

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Pace
Observer 40 Expert 80,
School 801 Grade 2
Week 9 Day 4
DMP

		^	by 0	gory o bserve			,		Lightis
, (atagory chosen by Expert 80	Cat	1	12	3	Marginal Totals	Nomina; Agreement	Marginal Agreement	Extension of Kappa
	,	, * +	++,++++	+ + + + + +	+++++	++++++++			
	Se J F	1 +	- 43	1	0	+ 44 +	.977	.846	. 932
	Other	2· +	8	5.5	0	+ 30 +	. 733	.833	,608
	Neither	3 +	1	, 2	1	*	.250	• 250	.240
	,	* *	+++++	++++	++++	+ +++++++++		·	· •
	Marginal	Totals +	52	25	1	+ + 78 +		``	
	l V	• • • • • • • • • • • • • • • • • • •	+++++	++++	+++++	* *********			
			ŧ	•		,		,	

category Marginal Agreement: .64:

Cohen's Kappa: #692

Table 208

Reliability on Pace
Observer 10 Expert 90
School 801 Grade 5
Week 9 Day 5
DMP #

· · · · · · · · · · · · · · · · · · ·			ory ch server		Marginal	Nominal	Marginal	Lightis Extension
Category chosen by Expert 90	Çat. #	1	5	3	Totals	Agreement	Agreement	of Kappa
	+	+++++	++++	++++	++++++++	•		•
Self	+ 1 +	73	2	0	+ 75 +	.973	,974	.815
Cther	5 + +	5	0	0	+ 5 +	0.500	1.000	 023
Neither	3 +	2	0	11	+ 13 +		.846	,825
	+	+++++	++++	++++	* **********	•		
Marginal T	+ + * * * * * * * * * * * * * * * * * *	77	2	11	+ 90	, ,		
	+	+++++	· + + + + ·	++++	++++++++	ò		

category Marginal Agreement: .940

Cohents Kappa: .752

Table 207

Reliability on Pace
Observer 20 Expert 90
School 801 Grade 5
Week 9 Day 5
DMP

	_~ *	Cated by Ot								Lightis
Category chosen	cat.				M	broin		Nominal	Marginal	Extension
by Expert 90	#	1	5	3	•	rotal:	3	Agreement	Agreement	of Kappa
	+ •	*****	++++	++++	+++	· + + + ·	+++			
	•				+		•			
Self	1 +	74	1	0	+	75	•	.987	.974	.908
	•		-		+	_	+	• • • • • • • • • • • • • • • • • • • •	• • •	• • • •
Other	2 +	5	0	0	+	2	¥	0.000	•500	011
	•	_	·	•	•	•	•		4044	- 4 0 * *
Neither	3 +	1	0	12	•	13	,	.923	, 923	.911
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•	•	•	•	10	Ĭ	4 3 E U	1,50	• - • •
•	¥.				· • •					
	Y \	****	****	****	***	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	• • •			•
	•		_		•	_	•			,
Marginal 1	otals +	77	1	12	+	90 (+			
	+				+	•	+		•	
	++	+++++	++++	++++	+++	++++	++			

category Marginal Agreement: .799

Cohenis Kapper .834

399



Table 209

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Pace
Observer 30 Expert 80
School 801 Grade 5
Week 9 Day 5
DMP

	I		ory coserve				¥		9	Lightis
Category chosen by Expert 80	Cat.	1	. 5	3		aroina Total		Nominal Agreement	Marginal Agreement	Extension of Kappa
	**	++++	+++++	++++	+++	*** <u>*</u> *	+++	•	·	
	•				+		+	t.		
Self	1 +	28	10	0	•	38	+	.737	• 763	.612
4	•				+		•			
other	2 +	0	50	0	+	50	+	1.000	.820	1.000
	•		- •		+		+	4 7 7 2 3		
Neither	3 +	1	1	. 0	4	2	+	0,000	0.000	.0.000
(10)	•	7	•	•	•					• • • •
ŕ		. 4								
	· · ·			• • • • •						
Manginei T	T	29	61	0	▼	90	•			
marginal T	otals +	67	9.1	U	.	90	*			
	•				7		•			
	++	+++++	++++	++++	+++	+++ +	+++			

category Marginal Agreement: ,528

Cohen's Kappai .726

Table 210

Reliability on Pace
Observer 40 Expert 80
School 801 Grade 5
Week 9 Day 5
DMP

•	•		egory (•	•	Lightis
Catagory chosen	Cat.			_	Marginal	Nominal	Marginal	Extension
by Expert 80	#	1	5	3	Totals	Agreement	Agreement	of Kappa
		+++++	* * * * * *	++++	+++++++			,
Self	. 1	+ + 35	3	0	+ 38 +	.	•950	.858
nther	5	+ 5	45	` o	+ 50 +		,960	.786
Neither	3	+ 0	0	2	+ 2 +	1.000	1.000	1.000
		· + + + + + + +	****	++++	+++++++++	•	,	
Marginal	Totals	+ + 40	48	Ş	+ 90 +			•
		++++++	+++++	++++	*****			

category Marginal Agreement: .970

Cohen's Kappal ,828

Table 211

Reliability on Pace
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 5
WDRSD

				gory c		١-				,	Lightis
Category chosen	Cat	•				M	ergina	9 l	Nominal	Marginal'	Extension
by Expert 90	*		1	5	3		fotals		Agreement	Agreement	of Kappa
·		++	+++++	· + + + +	****	+++	· • • • • •	++			
*		+			•	+		+			
Self	. 1	•	23	1	1	+	25	+	.920	.781	.845
	,	•				+		+		»	•
Other	5	•	9	24	0	+	33	+	.727	.758	.561
		♦				•		+			
Neither	3	•	0	0	8	+	. 8	+	1.000	.889	1.00.0
*	. '	+				+		+			
		++	++++	+++++	++++	***	++++	++			•
		+		p		+		+	•		
Marginal	Totals	+	32	25	9.	+	66	+	,	•	
*	·	•				•		•		i	N
		++	+ + + + +	++++	++++	++++	++++	**			

Category Marginal Agreement: .809

Cohen's Kappa: .727

407

Table 212

Phase IV - IGE Evaluation Project Descriptive Study**- Spring 1978

Reliability on Pace
Observer 20 Expert 90
School 801 Grade 2
Week 9 Day 5
WDRSD

	•		ç	•				
Category chosen by Expert 90	Cat.		egory bserv	chosen er 20	Marginal Totals	Nominal , Agreement	Marginal Agreement	Light:s Extension of Kappa
		+++++	· + + + +	++++	*****	•		v
Sal €	1	+ + 23	2	, o	+ + 25	+ ,920	.735	. 835
other	2	+ + 11	22	o	+ 33	+ + ,667	1,727	.476
Neither	· 3	+ + 0	0	8	+ 8	+ 1.000	1.000	1.000
		+ +++++	+++++	******	* ******	*		p .
Marginal To	tals	+ + 34	24	8	+ + 66 +	• •		
		+++++	*****	+++++	*****	+	,	
								•

category Margina! Agreement: ,82

Cohen's 'Kappa! +676

406

ERIC

· Table 213

Reliability on Pace
Observer 30 Expert 80
School 801 Grade 2
Week 9 Day 5
WDRSD

				gory ch server		,			Lightes
Category chosen by Expert 80	€ #		1	2	3	Marginal Totals	Nominal Agreement	Makginal . Agreement	extension, of Kappa
* :		++	+++++	+++++	+++	*****	•	<u></u>	***
Self	1	+	55	2 .	0	+ 24	.917	. 923	,853
Other	. 2	+	. 5	30	0	÷ 35.	,938	1.000	,866 ^r
Neither	3	+	5	0	S	+ 4	.500	.500	.483
		++	++++	* * * * * * *	++ <u>+</u> +	* * * * * * * * * * * *			
Marginal	Totals	+	26	32	2	+ 60		. '	ı
		* + +	++++	+++++	++++	*+++*+++	•		1.5

Category Marginal Agreement: .808

Cohen's Kappai .815

Table 114

Reliability on Pace
Observer 40 Expert 80School 801 Grade 2
Week 9 Day S
WDRSD

			dory (1					Lightis
Category chosen by Expert 80	Cat.	1	2	3		argina Total:		Nominal Agreement	Marginal Agreement	Extension of Kappa
		+++++	· + + + + + ·			* + + + +	+++			
•		+			+		+			
Self	1	+ 24	0	0	+	24	•	1.000	•923	1.000
		+			+		•			
Other	2	+ 0	32	0	•	32	+	1.000	1.000	1.000
		+			+		•			
Neither	3	+ 2	0	2	+	4	•	•500	• 500	.483
	•	•			+		+			
	•	+++++	****	++++	+++	+++++	+++			
	•	+			•		+			
Marginal Tot	a 5 .	+ 26	32	5	•	60	+			
	•	•			+		+			
	•	* + + + + +	+++++	++++	+++	****	++			

category Marginal Agreement: ,808

Cohen's Kappai .938

4:0

Table 215

Reliability on Pace
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 5
DMP

•			Cated	ory c	chosen	1				
•			by Ob	serve	er 10				Lightis	
Category chosen	Cat					Marginai	Nominal	Marginal	Extension	
by Expert 90	#		1	5	. 3	Totals	Agreement	Agreement	of Kappa	
		++	****	++++	+++++	++++++++	در م	:		
		•	_		•	+ +				
Se I f	1	+	33	1	1	+ 35 +	.943	.854	.888	
		+	_ `		_	•		057	4.25	
other	5	+	7	33	2	+ 42 +	,786	.857	,625	
Neither	3	+	,	S	4	*	× 571	1.000	.532	
Met allot	3	, v	•	4	•	• •	^ 3 6		,002	
		+4	. + + + + +			*****				
		•				+ +				
Marginal 'Tot	a \$	+	41	36	7	+ 84 +				
	·	+				+ +				
		+4	+++++	++++	+++++	******				

category Marginal Agreement: .904

Cohen's Kappa: .710

Table 216

Reliability on Pace
Observer 20 Expert 90
School 801 Grade 2
Week 9 Day 5
DMP

				ory c			argina		Nominal	Marginal	Light's Extension	
Catagory chosen by Expert 90	Cat.	1 2		5	3		Totals		Agreement	Agreement	of Kappa	
		+++	++++	++++	++++	+++	+++++	++	,			
	•	+	21	2	2	*	35	+	.886	875	.782	
Self	1	* +	31	E	E	+	95	+			422	
other	2	+	7	33	5	+	42	+ %	.786	.833	,633	
Neither	3	+	5	0	5	+	7	•	.714	.778	.68p	
, ¹		* ++4	++++	+++++	++++	+++	++++	+++		•		
Marginal To	tals	+ + + +	40	35	9	+ +	84	* *				
		+++	++++	+++++	++++	+++	++++	+++				

category Marginal Agreement: .829

Cohen's Kappal .694

415

* Table 217 .

Reliability on Pace
Observer 30 Expert 80
School 801 Grade 2
Week 9 Day 5
DMP

			ry ch erver			•			Lightis	
Category chosen by Expert 80	Cat. #		1	2	3	, ·	Marginal Totals	Nominai Agreement	Marginal Agreement	Extension of Kappa
		++++	****	++++	+++	++	+++++++		,	
Self	í	+ 4	7	12	3		+ 62 +	.758	•774	.435
other	. 5	+	1	18	0	,	+ 19 +	.947	,633	.918
Neither	3	+	0	0	3		. 3	1.000	.500	1.000
		+++++	+++	++++	+++	++	* + * * * * * * * * * * * * * * * * * *			
Marginal '	Totals	+ 4	8	30	6		+ 84 +			
		*	++++	++++	++,+	++	*****			

category Marginal Agreement: .636

Cohenia Kappai .6.5

Table '218

14.

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978 ,

Reliability on Pace
Observer 40 Expert 80
School 801 Grade 2
Week 9 Day 5

· ·				ory c	hosen r 40				J	Light's Extension	
Category chosen	Cat.			Ĺ			argina		Nominal	Marginal	of Kappa
by Expert 80	#		1	5	3	,	Totals	•	Agreement	Agreement	Of Vabba
		+++	++++	++++	++++	+++	+++++	++			``
		•				+		+			•
Self	1	•	56	6	0	+	62	+	.903	.903	.710
,	_	+				•		+	;		
Other	2	+	0	19	0	+	19	+	1.000	,760	1.000
		+				+		+		M \	
Neither	3	+	0	0	3	+	3	+	1.000	1.000	1.000
		•				+		•			
		+++	++++4	· + + + + +	++++	+++	+++++	+++			
		+				+		+			
Marginal Tot	tals	•	5-6	25 ,	3	+	84	+			
		+				+		+			
	•	+++	++++	++++	++++	+++	++++	+++			
					•				₹		

Category Marginal Agreement: ,888

Cohen's Kappa: .837

Table 219

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Grouping Observer 10 Expert 90 School 801 Grade 5 Week 9 Day 4 DMP

Category chosen Cat		Categor	y chos	en by	Obse	erver		Naminai		Lightis
by Expert 90	#	1	2	3	4	5	Marginai Totais	Nominal Agreement	Margina; Agreement	Extension of Kappa
	•	+++++	* * * * * *	++++	****	++++	******	ه. د	• ·	
Individual	1	÷ 61	2	3	0	0	+ 66	,924	•917	.621
Pair	5	• • 8	7	2	0	0	+ 17	.412		,346
Small Group (3#8)	3	+ + 2	o	0	0	0	+ 5 +	0.000	• 4 0 0	-,059
Large Group (>8)	4	+ + 0	0	0	0	0	* · · ·		## ## ## ##	
None of the above	5	* * 1	0	0	0	4	* * * *	.800	.800	.791
•		* ******		++++	+++ +	***	* ********	•		*
Marginal	Totals	+ + 72	9	5	0	4	+ 90 +	•		
• •	•	+ ++++++	****	++++	· ++++	****	* * * * * * * * * * * * * * * * * * *			

Category Marginal Agreement; .662

Cohenis Kappai .488

423

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

> Reliability on Grouping Observer 20 Expert 90 School 801 Grade 5 Week 9 Day 4

			chosen by		0b\$e	erver	20 Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expert 9.0	Cat.	· 1.	. 2	ε _ι 3	4	5	Totals	Agreement	Agreement	of Kappa
		++++++	· + + + + ·	++++	++++	++++	+++++++++	•		
Individual	1	♦ 59	4	i	0	2	+ 66	. 894	.943	•523
Pair	2	+ + 10	7	0	0	0	+ 17	.412	.706	,321
Small Group (3-8)	3	+ 1	1	, 0	0	.k 0	+ 2 +	0.000	.500	011
Large Group (>8)	4	+	0	0	0	0	+ 0	• • • • • • • • • • • • • • • • • • •	40 40 go 40 40	₩ ₩ ₩ ™
None of the above	5	+ 0	0	0	0	5	+ 5	1.000	.714	1.000
G.		+			· + + + •		· · + + + + + + + + •	•		
≯ 3 .		*		, , , , , ,			•	•		
Marginal	Totals	+ 70 +	12	1	0	7	+ 90	♦ ♦		
		++++++	• • • • • •	++++	++++	++++	++++++++	+		

Category Marginal Agreement: .716

Cohenis Kappai .472

422

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Table 221

Phase IV - IGE Evaluation Project

Descriptive Study - Spring 1978

Reliability on Grouping Observer 40 Expert 80 School 801 Grade 5 Week 9 Day 4

Category chosen			gory	chos	en by	0b\$e	rver	rver 10 Marginal Nomina		Nominal	Marginal	Light's Extension
Category chosen by Expert 80	Cat.	•	1	5	3	4	5		Totals	Agreement	Agreement	of Kappa
		++++	++++	++++	++++	++++	++++	++++	++++++			
Individual	1	+ +	26	0	0	2	0	*	28 +	,929	.875	.889
Pair	2	+ +	2	0	0	0	0	+	5 +	0.000	•500	011
Small Group (3-8)	3	+	0	0	0	0	0	+	0 +		See the Advantage	Am 400 Am 400 ags
Large Group (>8)	4	+	2	1	0	45	0	+	48 +	,938	.941	,856
None of the above	5	+ +	2	٥	Q	4	6	* *	12	.500	•500	,464
		+		*	++++	++++	++++	++++	++++++	•		
marginal T	otal*	*	32	1	0	51	6	* *	90	• •		
		++++	++++	++++	++++	++++	++++	+++	+++++	•		

Category Marginal Agreement: .704

Cohenis Kappai .750



Reliability on Grouping Observer 10 Expert 90 School 801 Grade 2 Week 9 Day 4 WDRSD

Category chases	0		ory cl	nosen l	oy Op	server	er 10 Marginal Nominal		Nonlani	Monalani	Lightis
Category chosen by Expert 90	Cat,	1	1 7	2 3	. 4	5		rotals	Agreement	Margina; Agreement	Extension of Kappa
		++++	* * * + + *	++++	++++	+++++	****		· .		
Individual	1	+	5 ;	. 0	1	0	+	7 +	.714	.857	.686
Pair	2	+	0 2	2 0	0	.0	+	2 +	1.000	.667	1.000
Small Group (3-8)	3	+	0 (0	0	0	*	0 +	majo mar dier gas tilg	*************************************	- es es == == ##
Large Group (>8)	4	+	0 (0	45	0	*	45 +	1.000	,918	1.000
None of the above	, 5	+	1 (0	3	8	+	12 +	,667	.667	,621
		* *****	****	+++++	**++	* * * * * *	* ****	* ******	,		
marginal T	otals	+	5 3	0	49	. 8	+	66 +			•
		+ +++++	* * * * * *	++++	++++	* * * * * *	* ****	* *****			

Category Marginal Agreement: .777

Cohenis Kappai .803



Table 223

Reliability on Grouping Observer 20 Expert 90 School 801 Grade 2 Week 9 Day 4 WDRSD

	C	Category	chos	en by	Obse	erver	20			,	Lightis
Category chosen by Expert 90	Cat,	1	æ	3	4	5		arginai Totais	Nominai Agreement	Margina; Agreement	extension of Kappa
	•	+++++		++++	++++	++++	+++	++++++			,
Individual	1 4	• • 3	5	0	. 1	1 ~	+	7 +	.429	.571	, 392
Palr	2 + +	→ 0	2	0	0	0	+	5 +	1.000	.500	1.000
Small Group (3-8)	3 +	→ 0	0	0	0	O	+	0 +		0 -	· (re in in g, in
Large Group (>8)	4 +	•	0	0	44	0	+	+ 45 +	,978	•938	,919
	5 +)	0	0	3	9	*	12 +	.750	,833	,705
None of the above	•						+	+		1000	,,, ,
	•	· · · · · · · · · · · · · · · · · · ·		****			• • • • •	++++++++++			
Marginal	Totals +	• 4, •	4	0	48	10	+	66 + +			
	•	++++++	++++	++++	++++	++++	+++	++++++			

Category Marginal Agreement: ,711

Cohen's Kappa: .741

Table 224

Reliability on Grouping Observer 40 Expert 80 School 801 Grade 2 Week 9 Day 4 WDRSD

fategory chosen	C-+	Category	cho	sen by	Obse	rver		Nominal	Marginai	Light!s Extension
Category chosen by Expert 80	Cat.	1	2	3	4	5	Marginai Totais	Agreement	Agreement	of Kappa
		++++++	++++	+++++	+++4	++++	* * * * * * * * * * * * * * * * * * *			A.
Individual	• 1	÷ 5	0	0	0	0	+ 5	1.000	_• 556	1.000
Pair	2	+ 0	0	0	0	0	• 0	******	# to go to do	
Small Group (3-8)	3	+ 4	0	33	0	0	+ 37 +	.892	.892	760
Large Group (>8)	4	÷ • 0	0	0	0	0	+ 0 +	(m eb 23 en eb	***************************************	/
None of the above	5	+ 0	0	0.	0	18	+ 18 +	1.000	1.000	1.000
		* *****	++++	. + + + + +	++++	. + + + +	* *******	· f		
marginal T	otals	+ + 9	0	33	0	18	+ 60 +	, *		
		+++++++	++++	++++	++++	• + + +	+ + + + + + + + + + + +			

Category Marginal Agreement: .816

Cohen's Kappai ,881

Table 225

Reliability on Grouping Observer (O Expert 90 School 801 Grade 2 Week 9 Day 4 DMP

Category chasen		Category chosen by Observer 40 Marginal Nom		Nominal	Marginai	Light's Extension					
Category chosen by Expert 90	Cat #		1	5	3	4	5	Totals	Agreement	Agreement	of Kappa
		+++	++++	++++	++++	++++	++++	******			
' Individual	1	+ +	55	1.	0	0 ,	1	+ 57 +	.965	.877	,845
Pair	2	+ +	6	5	0	0	; O	11 +	.455	,636	,405
Small Group (3-8)		+ +	1	1	0	0	0	. + 2 +	0.000	0.000	0,000
Large Group (>8)		+ +	3	0	0	4	0	+ 7 +	. 571	.571	,550
None of the above		÷ +	0	0	0	0	7	+ 7 +	1.000	.875	1,000
HOUR OF THE GOOVE	J	+				. + + + +	• • • • •	+ + + + + + + + + + + + + + + + + + +	• •		ν.
Marginal Tot	a s	* * *	65	7	, 0	4	8	+ + 84 +	•		,
		+++	++++	++++	++++	++++	+++++	. + + + + + + + + + + + + + +	• •		

Category Marginal Agreement: .592

Cohenis Kappai .658

Table 226

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Grouping Observer 20 Expert 90 School 801 Grade 2 Week 9 Day 4 DMP

Category chosen	0-4	Catego	ry cho	sen by	Ob s 6	erver			•		Light!s
by Expert 90	Cat #	1	2	3	4 .	5	•	Marginal Totals	Nominal Agreement	Margina; Agreement	Extension of Kappa
,		****	* * * * * *	+++++	++++	++++	* + + 	· • • • • • • • •			•,
Individual	1	+ + 52	4	0	0	1	*	57 +	,912	,934	,680
Pair	5	÷ 3	8	0	0	0	+	11 +	,727	.917	,682
Small Group (3-8)	3	÷ 2	0	0	0	0	•	5 +	0.000	0.000	0.000
Large Group (>8)	. 4	+ 4	0	0	3	0	*	7 +	,429	.429	.407
None of the above	5	• 0	0	0	0	7	+	7 +	1.000	.875	1.000
		+++++	+++++	+++++	++++	· + + + •	++++	*****	* .		
Marginal	Totals	+ + % 61 +	12	0	3	8	* *	84 +			
		****	++++	****	++++	++++	++++	*****			
											4.00 ***

435

Category Marginal Agreement: .631

Cohen's Kappa: .651



Table 227

Reliability on Grouping Observer 40 Expert 80 School 801 Grade 2 Week 9 Day 4 DMP

Cotocou chases	0.4	Category	chos	en by	0b\$6	erver 1		Nominal	Magalani	Light's
by Expert 80	Cat.	1	5	3	4	5	Marginal Totals	Nominal Agreement	Margina; Agreement	Extension of Kappa
		++++++	++++	****	++++	· +++ +	+++++++			
Individual '	1	+ 34	7	0	1	0	+ 42 +	.810	,933	•550
Palr	5	÷ 5	. 0	0	0	0	+ 5 + + •	0.000	.286	-,099
Small Group (3-8)	3	+ 8	. 0	4	0	0 \	+ 12, +	,333	,333	¥297
Large Group (>8)	4	+ 0	0	0	18	0	+ 18 +	1.000	.857	1.000
None of the above	5	+ 1	0	0	5	1	+ 4 +	.250	.250	,240
		*****	·	++++	++++	*****	* ******	•		
Marginal	Totals	+ + 45	7	4	21	1	+	•		
		* ******	****	++++	· + + + +	+++++	* * ******		•	

Category Marginal Agreements Cohen's Kappat ,563



433

Table 228

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Grouping Observer 10 Expert 90 School 801 Grade 5 Week 9 Day 5 DMP

Category chosen	C-+		ory cho	sen by	Obs	erver					Lightis
by Expert 90	Cat.		. 2	3	4	5		arginai Totais	Nomina; Agreement	Margina; Agreement	Extension of Kappa
		+++++	* + + + + +	+++++	++++	++++	+ + + +	++++++	•		
Individual	1	+ 59	1	5	0	0	+	62	952	.925	.811
Pair	5	* 4	3	0	0	0	+ +	7	.429	.857	.388
Small Group (3#8)	3	+ â	2	4	0	0	+ +	8	•500	.750	.464
Large Group (%8)	4	+ 0	ō	0	0	0	+	0	47 40 10 40 40	*** *** *** ***	w en w 🔰 🤫
None of the above	5	-	0	0	0	11	* *	13	. 846	.846	.825
		+++++	+++++	+++++	++++	+++++	+++	· + + + + + +	•		
Marginal '	Totals	+ + 67 +	6	6	Q	11	+ +	90	• •		
		+++++	* * * * * *	+ + + + + +	++++	+++++	+++	*****			

Category Marginal Agreement: .845

Cohen's Kappa: .685



Table 229

Reliability on Grouping Observer 20 Expert 90 Grade 5 School 801 Week 9 Day 5 DMP

Catarany shares		ategory	chos	en by	0bs	erver			Nominal	Marginal	Light's Extension
Gategory chosen by Expert 90	Cat. #	1	2	3	4	5		ginal stals	Agreement	Agreement	of Kappa
	+	+++++	++++	++++	++++	++++	++++	· + + + + +	. 1		
Individual	1 +	55	4	2	1	0	+	62 4	. 887	, 984	,650
Palr	5 + +	4	3	0	0	0	+	7	429	.778	,365
Small Group (3-8)	3 +	5	1	5	0	0	+	8 +	,625	875	,593
Large Group (>8)	4 +	0	0	0	0	0	+	0 +	r - App 400 With year 423	0.000	. w ep #r ep 60
None of the above	* 5 *	0	1	0	0	12	+	13	. 923	,923	,911
,	+	+++++	. + + + +	++++	++++	++++	* *****	• • + + + + •	•		
Marginal To	+ otals +	61	9	7	i	12	+	901	•		
	+	+++++	****	++++	++++	++++	* *****	+ + + + + + •	•		

Category Marginal Agreement: .712

Cohen's Kappal .666

4 1()

Table 230

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Grouping Observer 30 Expert 80 School 801 Grade 5 Week 9 Day 5 DMP

Category chosen		Categor	y chos	en by	0b\$6	erver		Nominal	Manainai	Lightis
by Expert 80	Cat,	1	5	3	4	5	Marginal Totals	Nominal Agreement	Margina; Agreement	Extension of Kappa
		*****	+++++	++++	++++	++++	**** *****			
Individual	1	+ 22 +	4	0	5	0	+ 31 +	.710	•742	.610
Pair	, 2	* + 1	6	0	1	0	* 8 *	.750	,615	.708
Small Group (3=8)	3	• 0	2	0	0	0	+ 2 +	0.000	0.000	0.000
Large Group (\$8)	. 4	• 0	0	0	47	0	+ 47 +	1.000	.870	1.000
None of the above	5	• 0 •	1	0	1	0	+ 2 +	0.000	0.000	0,000
,	•	* * * * * * * * * * * *	* * * * * *	++++	++++	· + + + + ·	*****			
Marginal	Totals	+ + 23 +	13	0	54	0	+ · 90 +			
4 4 O	•	*****	* * * * *	++++	* * * * *	++++	*****			443

442

Category Marginal Agreement: .446

Cohen's Kappa: .715



Table 231

Phase Iv - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Grouping Observer 40 Expert 80 School 801 Grade 5 Week 9 Day 5 DMP

		Catego	ory (chos	en by	0bse	rver	40 Merginal	Nominal	Marginai	Light's Extension
Category chosen by Expert 80	Cat.		1	2	3	4	5	Totals	Agreement	Agreement	of Kappa
		++++	++++	++++	++++	++++	++++	++++++++	•		
Individual	1	+ 51	В	0	0	3	0	+ 31	903	.775	.826
Palr	2	+	5	2	0	1	0	* 8 ·	• . 250	.250	.233
Small Group (3-8)	3	+	2	0	0	0	0	+ 2	+ + 0.000	0.000	0.000
Large Group (>8)	4	+	5	0	0	42	0	+ + 47	• • •894	,979	,782
None of the above	5	•	0	0	0	0	2	+ 2	+ + 1.000	1.000	1.000
NONE OF THE BOOKE	5	+						+	*		
		+		****	•			+	• •		· ·
Marginal To	ta \$	+ 4	0	5	0	46	2	+ 9 0 +	* *		
		++++	++++	++++	++++	++++	++++	****	•		

Category Marginal Agreement: .601

Cohen's Kappa: .692

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Table 232

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Rehlability on Grouping Observer 10 Expert 90 School 801 Grade 2 Week 9 Day 5 WDRSD

Category chosen Cate		ategory	, chos	chosen by		rver		Nominal	Marginal	Light's Extension	
Category chosen by Expert 90	Cat.	1	5	3	4	5	Margina! Totals	Agreement	Agreement	of Kappa	
	, +	****	· + + + +	++++	* + + * +	++++	* * * * * * * * * * * * * * * * * * *		:		
Individual	1 +	16	0	0	1	1	+ 18 +		.750	,825	
Pair	2 +	. 2	7	. 5	0	0	+ 11 ·	. 636	.818	,579	
Small Group (3-8)	+ 3 +	• 1	0	0	. 0	0	+ 1	0.000	,500	. ,031	
Large Group (>8)	+ 4 +	5	2	0	21	0	+ 28	.750	,786	.625	
None of the above	5 +	• 0	0	0	o	8	+ 8	1.000	.889	1,000	
	+	. + + + + + + .	. + + + + 1	++++	++++	• + + +	* * * * * * * * * * * * * * * * * * *	•			
Marginal 1	+ + Totals +	24	9	. 2	55	9	+ 66	• •			
A.	•	• • • • • • •	++++	++++	++++	++++	******	•		4 4 M	

447

Category Marginal Agreement: .749

Cohen's Kappa: .705



Table 233

Reliability on Grouping Observer 20 Expert 90 School 801 Grade 2 Week 9 Day 5 WDRSD

Category chosen	Cat		ory ci	nosen b	y Obs	erver	20 Marginal	Nominal	Marginal	Light's Extension
by Expert 90	, H	,	1 2	2 3	4	5	rotals	Agreement	Agreement	of Kappa
		+++++	++++	+++++	++++	* + + + + 	++++++++	•		
		•					+ +	•		
Individual	1	+ 1	3	2	2	0	+ 18 +	.722	.857	, 593
		+					+ +	•		•
Pair	2	•	5	9 0	0	0	+ 11 +	.818	.846	.774
		+					+ +			
Small Group (3-8)	3	•	0	1	0	0	+ 1 +	1.000	.250	1.000
		+	_	_			+ +			4.00
Large Group (>8)	4	+	6	9 1	18	0	+ 28 +	, 643	,714	.488
	•	*	•		•	•	• •	. 1 000	1.000	1.000
None of the above	5	•	0 (0	0	8	+ 8 +	1.000	1.000	1,000
		*	****				· · · · · · · · · · · · · · · · · · ·	•		
		4	*****	· · · · · · · · · · · · · · · · · · ·	****	****		•		
Marginal '	Totals	† 5	1 13	3 4	20	8	+ 66 +	,		
		•	•	y • • • • • • • • • • • • • • • • • • •		•	+ +	1		1
		++++	+++++	+++++	++++	* + + + + +		•		

Category Marginal Agreement: #734

Cohanis Kappa: .650

285

Table 234

Reliability on Grouping Observer 30 Expert 80 School 801 Grade 2 Week 9 Day 5 WDRSD

Category charge	cat.	Catego	ory	chos	en by	06 s 6	erver		roinal	Nominal	Marginal	Light's Extension
Category chosen by Expert 80	#		1	5	3	4	5		otals	Agreement	Agreement	of Kappa
		++++	++++	++++	++++	++++	•	++++	++++++	•		
Individual	i	+ 2	1	0	0	0	0	* +	21	1.000	.840	1,000
Palr	2	+ •	0	3	0	0	0	+	3	1.000	1.000	1.000
Small Group (3-8)	3	+	0	0.	0	0	0	+	0) Jan (A) (A) (A) (A) (A)	(go 100 yan mg) (30)	(014 too top (157 top
Large Group (>8)	4	+	2	0	0	30	0	+	35	,938	,938	.875
None of the above	5	+ •	5	0	O /	0	5	+	4	.500	•500	,483
		+++++	* * * +	++++	++++	++++	++++	* ****	· + + + + + •	• ' •		
marginal T	ctals	+ 2	5	3	0	30	5	+ +	60			
		++++	++++	++++	4+++	++++	++++	++++	+++++	•		

450

Category Marginal Agreement: .819

Cohen's Kappa: .886

Table 235

Reliability on Grouping Observer 40 Expert 80 School 801 Grade 2 Week 9 Day 5 WDRSD

		ategory	chos	en by	0b\$e	rver	40 Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expert 80	Cat, #	1	2	3	4	5	Totals	Agreement	Agreement	of Kappa
	+	+++++	*****	++++	++++	++++	+ + + + + + + + + + + +	.		
Individual	*	21	0	0	0	0	+ 21	1.000	,913	1,000
Pair	5 + +	0	3	6	0	0	* * 3	+ + 1.000	1.000	1.000
Small Group (3-8)	* 3 +	0	0	0	0	0	+ 0	÷	70 for the east do	
Large Group (>8)	+ +	0	O	0	32	0	+ 32	+ 1.000	1.000	1.000
hone of the above	• •	2	0	0	0	5	+ 4	+ + •500	•500	,483
Manife WA Fligs Sanson C	÷		·		****	. + + + +	+ +++++++++	→		
		m 13	3	ti .	32	2	+ 60	♦		
Marcinal T	*	23		0			•	* ∳:		
	•	· 3 4 4 4 4	****	++++	****		****	₹		

takanta Kappat "948

Reliability on Grouping Observer 10 Expert 90 School 801 Grade 2 Week 9 Day 5 DMP

Category chosen by Observer 10 Category chosen Cat. Marginal Nominal Marginal by Expert 90 5 Totals Agreement Agreement of Kappa Individual 1 + 30 1 33 .909 .917 .841 Pair 5 + 5 0 0 5 1.000 .417 1.000 Small Group (3-8) 3 + 0 0 0 0.000 Large Group (>8) 5 б 26 39 .667 .692 .509 None of the above 5 + 0 .571 1.000 .532 Marginal Totals + 36 27 12 84

455

Category Marginal Agreement: .605

Cohenta Kappai .661



Table 237

Phase Iv - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Grouping Observer 20 Expert 90 School 801 Grade 2 Week 9 Day 5 DMP

			egory	chos	en by	0686	rver		Naminal	u. na l na l	Light's Extension
Category chosen by Expert 90	Cat. #	•	1	2	3	4	5	Marginai Totals	Nominal Agraement	Margina; Agreement	of Kappe
		+++	****	++++	++++	++++	++++	* * * * * * * * * * * * * * * * * * *			
Individual	1	+	28	: 1	0	2	2	+ 33 +	.848	.970	,755
Pair	5	+ +	0	4	1	0	0	+ + + + + + + + + + + + + + + + + + +	.800	.833	.785
Small Group (3+8)	3	+ +	0	0	0	0	0	+ 0 +	gin too 949 too too	0.000	a w w y w
Large Group (>8)	4	+ +	4	1	0	32	2	+ 39 +	,821	.672	,698
hone of the above		+	0	0	5	0	5	+ + + + + + + + + + + + + + + + + + +	.714	,778	.680
Notice by the above	J	+						+ +		•	•
		+++	• • • • •	****	+ * * * *	****		+	•		
Marginal	Totals	* *	32	6	3	34	9	+ 84 +	,		
		+++	++++	++++	++++	· • • • • • •	· + + + ·	+++++++++			

Category Marginal Agreement: .691

Cohen's Kappal .725

1 (

459

Table 238

Prase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Grouping Observer 30 Expert 80 School 801 Grade 2 Week 9 Day 5 DMP

Cataonau abona		Catego	ry cho	sen by	Obse	erver		11 m 1 m n 1		Lightis
Category chosen by Expert 80	Cat, #	1	2	3	4 .	5	Marginai Totals	Nominal Agreement	Margina; Agreement	Extension of Kappa
		++++++	* * * * * *	+++++	++++	++++	******	•		
Individual	1	+ 41	ı	5	4	0	+ 48	854	.917	.694
Pair	2	+ + 3	9	0	0	0	+ 12	+ → •750	.917	,712
Small Group (3=8)	3	+ + 0	1	1	1	o	+ 3	,333	1.000	.309
Large Group (>8)	4	+ • 0	0	0	18	0	+ 18 4	1.000	.783	1.000
None of the above	5	+ • 0	0	0	0	3	+ 3	1.000	1.000	1.000
		++++++	. + + + + +	++++4	++++	· + + + + •	* * * * * * * * * * * * * * * * * * *	•		·
Marginal	Totals	+ 44	11	3	23	3	* 84 *	•		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*					* * * * * * * * * * * * * * * * * * *			
		, , , , , , ,		• • • • •	• • • • •		• • • • • • • • • • • • • •	`. · ·		

Crtegory Marginal Agreement: ,923

Cohenis kappa: .770



Table 239

Reliability on Grouping Observer 40 Expart 80 School 801 Grade 2 Week 9 Day 5 DMP

Category chosen Cat		ategory	chos	en by	0b\$e	rver	40 Marginal	Nominal	Marginal	Light's Extension	
Category chosen by Expert 80	Cat. #	1	2	3	4 .	5	Totals	Agreement	Agreement	of Kappa	
	•	+++++	++++	++++	++++	++++	+++++++++				
Individual	1 +	43	0	3	2 ~ `	0	+ 48 +		1.000	.757	
Patr	2 4	5	7	o .	0	0	+ 12 +	583	.750	,533	
Small Group (3=8)	3 +	0	2	0	i	0	+ 3 +	0.000	1.000	-,037	
Large Group (>8)	4 4	0	0	, o	18	0	+ 18	1:000	,857	1.000	
None of the above	5 (• 0	0	0	0	3	÷ 3	1.000	1.000	1.000	
	•	, , , , , , , , , ,	++++	++++	++++	++++	• • • • • • • • • • • • • • • • • • •	•			
" Marginal 1	rotals -	+ + 48	9	3	21	3	+ 84	•			
		, , , , , , , , , , ,	++++	++++	****	++++	*****	•			

Category Marginal Agreement: .921

Cohents Kappal ,743

463

Table 240

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 5
Week 9 Day 4
DMP

Material: Paper/pencil

Category chosen (Cat	_		pory c			argin:	a !	Nominal	Marginal	Lightis Extension
by Expert 90	# B	•	1	2	3		Total		Agreement	Agreement	of Kappa
5, Exp. 5, 5	•		•	_	•			_		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		++	+++++	++++	++++	+++	++++	+++			
		•				+		+			
Used	1	•	61	21	0	•	88	•	.744	.756	.177
		•				+		+			
Not used	5	•	1	5	0	+	3	+	.667	.125	.545
		4				+		+			
other	3	+	0	1	4	+	5	+	.800	.800	.791
		•				+		+			
		++	+++++	+++++	++++	+++	++++	+++			
		+				+		+			
Marginal Tota	9 \$	+	62	24	4	+	90	+			
		+				+		+			
		++	+++++	++++	++++	+++	+++++	+++			

Cohen's Kappa! .292

Category Marginal Agraement: .560



Table 241

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 5
Week 9 Day 4
DMP

Material: Paper/pencil

	Cat.		Cateq by Ob		ho s en r 20	Marg	Inal		Nominal	Marginal	Lightis Extension of Kappa
Category chosen by Expert 90	#		1	2	3	Tota	e i s	i	Agreement	Agreement	Ó4 Kapba
		+++	+++++	++++	++++	+++++					
	1	+	80	1	1	+ + 8		+	.976	1.000	.726
Used		+		. 0	4	+	3 .	+	0.000	。 .333	011
Not used	5	+ + ·	2		-	+		+	1.000	.714	1.000
other	3	+	0	0	5	+ +	5	▼	1.000	• ()	
		+++	++++	++++	++++	* + + + + +	++++	++			. 17
Marginal 1	ota's	+	82	1	7	+ 9 +	0	+			
		→	++++	++++	+++++	+++++	+++	++			

category Marginal Agreement: .693

Cohenis Kappai .664

Table 242

Reliability on Materials
Observer 45 Expert 86
School 801 Grade 5
Week 9 Day 4
DMP

Material: Paper/pencil

				dory c		•					Lightis
Category chosen C	at.					M	argina	9 i	Nominal	Marginal	Extension
by Expert 80	#		1	5	3		Totals	3	Agreement	Agreement	of Kappa
		* * * 	+++	* + + + +	. + + + + +	+++	+++++	+++			
		+				+		+			
Used	1	+	48	12	0	*	60	+	.800	.850	,538
		•				+		+			
Not used	2	+	2	16	0	+	18	+	.889	• 545	825
		+				+		+			
Other	3	+	1	5	6	+	12	+	•500	.500	.464
		+				+		+			
		++++	+++	+++++	++++	+++	+++++	++			
		+				+		+			
Marginal Tota	15	+	51	33	6	*	9.0	*			
		+				+		+			
	,	++++	+++	+++++	++++	+++	+++++	++			_

467

166

Category Marginal Agreement: .632

Coherts Kappal .588



Table 243

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 4
WDRSD

Material: Paper/pencil

	0 = 4		aory c serve			rgina	. 1	Nominal	Marginal	Light's Extension
Category chosen by Expert 90	Cat.	1	2	3		otals		Agreement	Agraement	of Kappa
DY EXPORT 20		_	_							
	++	++++	+++++	++++	++++	++++	+++			
	+				•		+		0.2.2	970
Used	1 +	9	1	O	+	10	+	•900	.833	.878
	+				•		*		0.5	0.50
Not used	5 +	5	42	0	+	44	+	• 955	• 95	.850
	+				+		+		=	421
other	3 +	1	3	8	+	15	+	•667	.667	.621
	+				+		+			
	+ •	+++++	+++++	++++	++++	++++	++			
	+				*		+			
Marginal T	oth.s +	15	46	8	+	66	+			
	•				+		+			
	+ •	+++++	+++++	++++	++++	++++	+++			

Category Marginal Agreement: +819

Cohen's Kappa! .782

Table 244

Phase IV = IGE Evaluation Project
Descriptive Study = Spring 1978

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 2
Week 9 Day 4
WDRSD

Material: Paper/pencil

		cated by Oh	iory c	hosen r 20	Marginal	Nominal	Marginal	Light:s Extension	
Category chosen by Expert 90	Cat.	1	2	3	Totals	Agreement	Agreement	of Kappa	
	•	+++++	++++	++++	· · · · · · · · · · · · · · ·				
U se d	+ 1 +	8	1	1	+ 10 +	0.00	.800	.772	
Not used	5 + +	G	44	0	+ 44 +	1.000	.917	1.000	
other	÷ 3 +	c	3	9	+ 12 +		.833	.705	
	+	+++++	+++++	+++++	* * + * * * * * * * * *	•			
Marginai	Totals +	8	4 P	10	+ 66 +	• •			
	• •	+++++	++++	++++	++++++++	•		4	۲4 4
								4	6 I

1.15

Category Marginal Agreement: .850

nohen's Kappai .839



Table 245

Reliability on Materials Expert 80 Observer 40 Grade 2 School 801 Day 4 Week 9 WDRSD

Material: Paper/pencil

Category chosen by Expert 80	Cat _a #		egory (Observe 2		(M a	ergina Totals		Nominal Agreement	Marginal Agraement	Lightis Extension of Kappa
			+++++	+++++	+++	++++	+++		_	•
Used	1	• • 25	0	0	+	25	+	1.000	.735	1.000
Not used	2	+ + 9	8	0	+ +	17	+	.471	.471	.389
other	3	• • 0	n	18	* *	18	+	1.000	1.000	1.000
		+ +++++	+++++	++++	++++	++++	+++			
Marginal To	otals	+ + 34	8	18	+ + +	60	+ +			
<i>)</i>		+++++	****	++++	+++	++++	+++			

Category Marginal Agraement: .735

Cohen's Kappat .764

477

Table 246

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 4
DMP

Material: Paper/pencii

			ory coserve	hosen ir 40				Lightis
Category chosen	Cat.				Marginal	Nominal	Marginal	Extension
by Expert 90	*	1	5	3	Totals	Agreement	Agreement	of Kappa
	+	+++++	· • • • • •	++++		+		
Used	1 +	76	0	1	+ + 77	+ + .987	.987	.864
	+				+	+		۸.
Not used	5 +	0	0	0	+ 0 +	+	\$10 MM (A) Up TP	100° 400° 100° 400° 400°
Other	3 +	0	0	7	+ 7	+ 1.000	.875	1.000
	+	+++++	++++	++++	* • • • • • • • • • •	+		
Marginal To	tals +	76	0	8	+ + 84	+ +		
	+				+	+		
	*	* * + * * * *	. + + + + +	* + + + + •		+		A rote
1								47

474

Category Marginal Agreement: ,931

Cohen's Kappa! .927



Table 247

Phase IV - IGE Evaluation Project

Descriptive Study - Spring 1978

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 2
Week 9 Day 4
DMP

Material: Paper/pencil

		Cated by Ob	ory c serve		Mørgina	Nominal	Marginal	Light:s Extension
Category chosen by Expert 90	Cat.	1	2	3	Totals	Agreement	Agreement	of Kappa
	4	. + + + + + + +	* * * * *	+++++	+++++++++	+ +		
used	1		0	1	+ + 77	+ .987	•987	.864
Not used	2 4	. 0	o	0	÷ 0	ф — — — — — — — — — — — — — — — — — — —	gen 432 gan 464	Styles and the styles
Other	3		0	7	* 7	+ 1.000	.875	1.000
	4	, ,	****	++++	++++++++	+ •		
Hardinal T	ot独ls ·	76	0	8	+ + 84 +	♥ • •		
	•	, , , , , , ,	****	++++	+++++++	* •		

Catagory Marginal Agreements .931

Cohenia Kappai .587

Reliability on Materials
Observer 40 Expert 80
School 801) Grade 2
Week 9 Day 4

DMP

Material; Paper/pencil

	egory chosen Expert 80	Cet.		sory coserve		Marginal Totals	Nominal Agreement	Marginal . Agreemant	Light's Extension of Kappa
		<i>'</i>	- +++++	++++	-44+4	·**	+ 		
	្សsed	1 -	46	1	v	47	+ .979	, 979	. 945
4	Not used	2 .	1	26	0	÷ 27	+ ,963	.931	,941
	other	3 .	+ → 1	5	1	+ 4	+ .250	.250	.240
		•	·******	*+**	+ +++	• • • • • • • • • • • • • • • • • • •	→		
	Marginal To	otais	+ + 48	29	1	+ + 78 +	+ +		
			· +++++++	++++	*****	****	+ +		4

Catagory Marginal Agreement: .720

Cohenia Kappat .872



Table 249

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 5
Week 9 Day 5

Material: Paper/pencil

	· · · · · · · · · · · · · · · · · · ·		Cates		chosen er 10	,	•		Lightis
	egory chosen Expert 90	Cat.	1	2	. 3 ,	Marginai Totals	Nominal Agreement	Marginal Agreement	extension of Kappa
. •		f.	+++++++	++++	+++++	++++++++	•	•	•
ę. 	Used	1	+ 72	5	. •0	* + 77	+ / ,935 .	.961	,635 ·
	Not used	5	+ + 0	Ó	0	÷ 0	ф qo ao ao ao ao 49	0.000	(30 00 00 00 00
	other	, 3	+ S +	0 ,	11	+ 13	.846	,846	.825
	ť ,		+ ++++++		+++++	* *****	•	.)	•
	Marginal	Totals	+ .74	5	11	· + / 90	+ + -	•	
	. , , , , , , , , , , , , , , , , , , ,		• ++++++	++++	+++++	****	*	• "	•
		•	•			,	*		

Category Marginal 'Agreement: .603

Cohen's Kappal ,721

101

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 5
Week 9 Day 5

DMP

Material: Paper/pencil:

	•	, 3 99		ory cho server				Manalani	Lightis Extension	
	agory chosen Expert 90	Cat.	1	2	3 .	Marginal Totals	Nominai Agreement	Marginal Agreement	of Kappa	•
			+++,++++	++++++	++++	******	•	•	. (
	Us e ¢	1	+ 76 ,	1	0	* 77 +	.987	1 . 0 0.0	.910	,
-	Not used	2	. • 0 ·	0	0	+ 0- +	60 to as 20 40	0.000	* up up up up up	ζ,
•	other	3	* · · · · · · · · · · · · · · · · · · ·	0 1	. 2	13 +	, 923	•923 •	. 911	
ŧ	^		++++++	++++4	++++	*******		•	•	
erit F	Margina	Totals	+ + ,77 +	1 1	.2.	+ 90 +	•	ý.		• •
	· •		*+++++	+++++	+++	++++++++	•	•	10 G	13

Category Marginal Agreement:

►Cohen's Kappa! .911

482

'\.

ERIC Full feet Provided by ERIC

Reliability on Materials
Observer 30 Expert 80
School 801 Grade 5
1 Week 9 Day 5
DMP

Material: Paper/pencil

			4			•		, -	•	
		,		gory o				*		Lightis
	egory chosen Expert 80	Cat.	1.	ģ	3	Marg , Tot		Nominal Agreement	Marginal Agreement	Extension of Kappa
		•	+++++	****	++++	****	+++	•		•
	U sed , ,	. 1	+ 75	1	0	+ + 7	6	+ 1.987	. 884	.404
•	Not used	.S .	÷ 10	2	0	+ 1	2	+ .167	.333	.128
`	other	3	+	ı	, 0	+	2	+ 0.000	0.000	. 0.00.0
	Marginal	Totals	+++++++++++++++++++++++++++++++++++++++	. 4	· · · · · ·	* * * * * * * * * * * * * * * * * * *	0 -	* • • • • • • • • • • • • • • • • • • •	. (•
	•		++++++	+++++	+++++	+++++	++++	+ ,		,

category Marginal Agreement: .406

Cohen's Kappai .228

Phase	IV	- I	GE	EVa	lua	tion	Pr	oject
Descr	IPt	14	S	tudy	•	Spri	n9	1978

Reilability on Materials
Observer 40 Expert 80
School 801 Grade 5
Week, 9 Day 5
DMP

Material: Paper/pencil

9	•	· .	Cated	IOPV C				•		
Category ch by Expert		Cat.	by Ob	serve 2		Margina	9 8	Nominal Agreement	Marginal Agreement	Light's Extension of Kappa
-	•	,	*****	++++	++++	+++++++	++	-		¢
used		1	+ 71	· 5	0	† + 76	÷	,934	•934/	.688
Not us	sed .	2	* L. 6	. 15	. 0 .	+ 12	+	1.000	.706	1.000
other	•	3	+ • 0	. 0	5,	, 5 ,	*	1.000	1.000	1.000
.e	•	(+ +++++++	++++	F.++++	* *******	* +++	•	,	
	arginal	Totals	+ 71	17	2	+ 90	*.	•	•	
•		**	*·	+++++	+++++	*********	+++	<i>,</i> , , , , , , , , , , , , , , , , , ,	ا ا	487

Category Marginal Agreement: .880

Cohen's Kappa: ,820

486

ERIC Provided by ERIC

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 5
WDRSD

Material: Paper/panci!

	 •		ory ch server			. Nominal	Marginal	Lightis Extensión
Category chosen by Expert 90	Cat.	-1	5	3	Totals	Agreement	Agreement	of Kappa
	•	, , , , , , , , , , ,	+++±,44	+++	+++ 3 +++++	₩ • :	,	
u and	1	+ + 24 ,	. 16	1	+ + 41	+ + . •585	,585	,348
Used,	, , ,	• 0	17	0	* + 17	+ + 1.000	.515	/ 1.000
Not used	3	• O	0	8	+ + 8	+ 1.000 ~	, .889	1.000
Other		+ 4 4 4 4 4 + 4 4	. + + + + +	. + + + 4	+ · + + + + + + + + +	♦ • ♦		
marginal To	tal\$	+ + 24 ·	33	9	+ 66	+ ** +		-
		+++++	+++++	. + + + +	******	**	, 1	E F

Category Marginal Agreement: .66

Cohen's Kappat .590

0.0

Reliability on Materials
'Observer 20 Expert 90
School 801 Grade 2
Week 9 Day 5
WDRSD

Material: Paper/pencil

	gory chosen / Expert 90	, Cat.		ory icho server 2	50	Marginal Totals	Nominal Agreement	Marginal Agreement	Lightis Extension of Kappa	•
\	Used	1. 3	⊬+++++ ⊦ ⊬ \ 37	+ + + + + + + + + + + + + + + + + + +	0	+ + + + + + + + + + + + + + + + + + +	•902	, 976	.752) (1
•	Not used	2	+ `	14	0	* ¥	.824	. 944	.757	
	other .	3	• 0	0	8	*	1.000	1.000	1.000	
•	· · · ·	· ·	* + + + + + + + + * •	++++++	++++	++++++++ + +	3			
ı	Marginal	Totals	+ 40 + ~	18	8 - q	+ 66 +	, ,			•
		•	++++++ 	++++++	++++	* * * * * * * * * * * * * * * * * * *			49	1

490

category Marginal Agreement: .973

Cohenis Kappai .803

ERIC

Table 255

Reliability on Materials
Observer 30 Expert 80
School 801 : Grade 2
Weak 9 Day 5
WDRSD

Material Paper/pencil

Category chosen by Expert 80	Cat.		ory Et server		'Marginal Totals	Nominal Agreement	Marginal Agreement	Light's Extension of Kappa
	•		, 				•	•
	,1	•••• •	· • • • • • • • • • • • • • • • • • • •	***	• •			
Used	1	• 51	0.	0	+ 51, +	1.000	, 962	1.000
0360	•	*	^		+ +	, , , , , , , , , , , , , , , , , , ,		1.000
Not used	5	+ · · · 0	5	0	+ 5 (-)	1.000	1.000	3 6 0 0 0
		+	۵	2	+ 4 . +	•500	•500	,483
other	3	+ S	U	, E	+ ′ +		•	,
`		~ ++++++++	++++	++++	*****	•		
•		• '		~	` +	• •		
Marginal To	tals	+ 53	5	5	+ 60 +	▶ 	•	
		+ ++++++	+++++	++++	• • • • • • • • • • •	•		•
			ŕ			٠.,	" were	

category Marginal Agreement: .821

Cohenis Kappai . .861

492

493

,

Reliability on Materials
Observer 40 Expert 80
School 801 Grade 2
Week 9 Day 5
WDRSD

Material: Paper/pencil

		Cated by Ob		hosen r.40 ,	Marginal	Nominal	Marginal	Lightis
Category chosen by Expert 80	£at.	1	、 2	3	Totals	Agreement	Agreement	of Kappa
	•	++++++	+++++	+++++	· • • • • • • • • • • • • • • • • • • • 	· ,		•
Vsed	1 +	51	0	0	÷ 51	1.000	,944	1.000
Not used	5.+	, 1	^ 4	, 0 63	5	.800	, ,800	,786
other	3 +	5	٠ ٥	2	+ 4	. 500	•500	.483
	+	+++++	+++++	* + + + +	* * + + + + + + + + + + + + + + + + + +			•
Marginal T	otals 4	54	٠ 4	. 5	+ 60	•	e	n
•		, . + + + + + +	++++	+++++	+++++			495

494

category Marginal Agreement: .748

Cohen's Kappa: .780

Table 257

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 5
DMP

Material: Paper/pencil

		,		dated by Ob	ory charge	10	 Marginal	Nominal	Marginal	Light's Extension
Cate	tegory chosen Cate y Expert 90 #	Cat.	1	. 2	3	Totals	Agreement	Agreement	of Kappa	
	•	•	•	.+++++	++++	++++		- v,		· \
	Used	* •	1 +	40	5	Š	47 . 4	.851	894	.702
			3	, ,	28	1	+ 30 +	.933	.857	.886
•	Not used	,	<i>.</i> /.		2	4	* * * * * * * * * * * * * * * * * * *	.571	1.000	•532
	Other		3 4	•	.			· • •	•	•
	•		•	• • • • • • • •	+++++	++++	· •	•		•
	Margin	al To	taks :	42	35	7	+ 84 +	•		·
		•	ه . م	, ++++++	+++++	++++	+++++++++	•	,	,

Category Marginal Agreement: .911

Cohenia Kappai .747

Phase IV - Inc Evaluation Project
Descriptive Study - Spring 1978

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 2
Week 9 Day 5
DMP *

Material: Paper/pencil

Marginal Marginal	Nominal Marginal,	Extension
Category chosen Cate by Expert 90 # 1 2 : 3 Totals	Agreement Agreement	of Kappa
*********	•	^
Used 1 + 43 1 3 + 47	+ .915 .940	.790
Not used 2 + 6 23 1 + 30	.767 .833	.668
other 3 + 1 1 5 + 7	÷ 714	.680
*	•	, ,
Marginal Totals + 50 25 9 + 84	•	
498	· · · · · · · · · · · · · · · · · · ·	499

category Marginal Agraement: .850

Cohen's Kappai .719



Table 259

Reijability on Materials
Observer 30 Expert 80
School 801 Grade 2
Week 9 Day 5
DMP

Material: Paper/pencil

	, .			hosen er 30			Marginal	Light's Extension
Category chosen by Expert 80	Cat.	1	, 2	3	Marginal Totals	Nominal Agreement	Agreement	of Kappa
* * * * * * * * * * * * * * * * * * * *	+	+++++	++++	•••••	+++++++			•
	1 +	63	3	· 0 ·	66	• •955	, 955	.818
Not used ,	5 + +	- 0	15	ò	+ 15	• ••• 1•000	833	1.000
other	3 +	† 0	Ô	3	+ 3	+ 1.000	1.000	1.000
	+	, .++++++	• + + ₁ + +	+++++	+ ++++++++	◆ ◆ ′·	•	
Marginal To	tal's +	63	18	3	+ 84	♦ ♦	0	1
, ,		· · + + + + + + ·	++++	+~+++	*********	•		•

category Marginal Agreement: ,929

Cohen's Kappa: .904

Table '260

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliawillty on Materials
Observer 40 Expert 80
School 801 Grade 2
Week 9 Day 5

Material: Paper/pencil

· ,			by	tegory Obser	chosen ver 40		Nominal	Marginal	Lightis Extension
, 7, - 2 0	by Expert 80	Cat.		1 2	3	Marginal	Agreement	Agreement	of Kappa
# "	•	,	++++·	+++++	++++++	******	•	` `	,
	Used	1	+ . + 6	6 0	0	+ 66	1.000	.971	1.000
	Not used #		+	2 13	C	+ 15	. 867	,867	.842
•	other	3	+	0 0	3 3	3	1.000	1.000	1,,, 000
			+	+++++	++++++	*****	•		•
•	Marginai	Totals	• • 6	8 13). 3	+ + 84 +			
5	02		++++	+++++	· + + + + ⁺ + ⁴	, , , , , , , , , , , , , , , , , , , 		``\	53

category Marginal Agreement: .946

Cohents' Kappal . . 929

ERIC

Table 261

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 5
Week 9 Day 4
DMP

Material: Manipulative

			ephry o Observe		Marginal	Nominal	Marginal	Light's Extension
Category chosen the by Expert 90	Cat.	1	. 2	3	* Totals	Agreement	Agreement	of Kappa
	1	+++++	******	* * * * * *	· • • • • • • • • • • • • • • • • • • •	•		•
Used	· · · 1	+ () 4	0	. + 4	+ + 0.000	.250	011
Not used	2	+ •• ·	80	· ,o	+ 81	• • • • • • • • • • • • • • • • • • •	. 953	.778
other .	· 3	+ (1	4 -	+ 5	+ → B 00	.800	, 7.91
	•	+ ++++	· · • • • • • •	+#+++	· · · · · · · · · · · · · · · ·	*		
Marginal	Totals	* -/·	1 85	4 %	+ 90	*		•
,	•	+,++++	+++ + ++	+++++	******	*	*.	
•	ì						,	•

category Marginal Agreement: .668

Cohents Kappat .55

504

505

r#S

Material: Manipulative

Category chosen by Expert 90	Cat.		ory coserve		Marginal Totals	Nominal Agreement	Marg na Agreement	Lightis Extension of Kappa
	•	+++++	++++	++++	++++++++	•		
~ Used	1 +	0	·. ·.	0	+ 4	0.000	0.000	0.000
Not used	2·+	0	79	2	+ 81	.975	,976	,683
other	3 +	0	0	5	÷ 5	1.000	.714	1,000
	+	+++++	++++	****	++++++++			•
Marginal To	tals +	0	83	7.	+ 90	,		
	*	+++++	++++	++++	. + + + + + + + + + + + + + + + + + + +	• •	•	·

506

category Margina! Agreement: .563

507

Cohen's Kappa! .598

Table 263

Reliability on Materials
Observer 40 Expert 800 k
School 801 Grade 5
Week 9 Day 4
DMP

Material: Manipulative

	,		ory ch		Marginal	Nominel	Marginal	Lightis Extension
Category chosen by Expert 80	Cat.	1 ′	8	3	Totals	Agreement	Agreement	of Kappa
٠,		. + + + + + +	+++++	+++	*****			
Used	1 +	15	0	0 -	15 +	1.000	. 405	1.000
	2 4	, <u>1</u> /8	45	0	+ 63; +	714	.746	.402
NOT Asea	3 (4	2	6	+ 12 +	• 500	.500	.464
other		,			+		: \	
`\	4	, , , , , , , , , , , , , , , , , , ,	*****		+	•		•
Marginal T	otals :	37	47	6	+ 90 +	•		
•	•	, ++++++	+++++	***	+++++++++	,	•	•

category Marginal Agreement: .550

Cohenis Kappa: .521

Table 264

Reilability on Materials
Observer 40 Expert 80
School 801 Grade 2
Week 9 Day 4
DMP

Material: Manipulative

• • • • • • • • • • • • • • • • • • •	8 -		aory (Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expert 80	Cat.	, 1	2	3	Totals		Agreement	of Kappa
	•	*****	*****	*****	******		`	
Used	1	→ → 0.	9	0	+ + 9	+ 0.000	.111	-,013
Not used	2 .	+ + 1	64	0	+. + 65	+ .985	.855	4 .400
Other	3	+	3	1	+ +	+ + .250	.250	,240
*		•			+	*		•
	'	****	, , , , , ,	****		·	, .	
Marginai T	otals ·	+ + 1	76	1	+ 78	•	•	
		•		•	*	+	3	
		+++++	+++++	+++++	++++++++	• •	,	

510

category Marginal Agreement: .405

511

Cohen's Kappa: ,103

ERIC

Table 265 *

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materia's Observer 10 Expert 90 School 801 - Grade 5 Week 9 Day 5

Material: Manipulative

•				egory (Observi		Manatant	Noningi	Mar 2 i na i	Light's Extension
Category chosen by Expert 90	Çat.	1	2	3	Marginal Totals <	Nominai Agreement		of Kappa	
2	1.	•	· + + + + + ·	++++ +	+++++	******	•	,	· ·
ι)sed	1	• • · 0	0	0	+ 0	o , 60 mai eeu ago ≪o .	0 - 0 0 0	
١	iot used	. 5	+ 5 + ·	75	0	+ 77	. 974	1.000	.820
	ther	3	+ 0	2	11	+ 13	846	.846	.825
		•	* * * * * * * * *	+++++	+++++	* ********	•		•
•	Marginal	Totals ·	* 2	77	11	+ 90	•	٠	•/ "
			+ + + + + + + :	*****	+++++	+ +++++++	•		

Category Marginal Agreement + 615

Cohenis Kappai .822

1

, **t**?

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 30 Expert 80
School 801 Grade 5
Week 9 Day 5
DMP

Material: Manipulative

*	,		ory choserver			Nominal -	Marginal	Light's Extension
Category chosen by Expert 80	Cat.	1	2	3	Marginal. Totals	Agreement	Agreement	of Kappa
1	•	· + + + + + ·	+++++	++++	+++++++++		•	
Used	1)) 10	2	0	+ 12 +	.833	.480	. 769
Not used	2 4) 14	62	0	+ 76 +	. 816	.855	.337
other	3	• • 1	. 1	0	+ 2 +	0.000	0.000	0.000
·	, ,	+ ++++++	+++++	+++	******	•		· ·
Marginal T	otals ·	+ + 25	·65	0	+ 90			
		~ + + + + + + +.	+++++	++++	*****	•		•

Category Marginal Agreement: .445

Cohen's Kappai .43

Table 267

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 40 Expert 80
School 801 Grade 5
Week 9 Day 5
DMP

Material: Manipulative

	,		Cated by Ob	ary chi server	959 0	Margidal	Nom /ne I	Marginal	Light's Extension
Category chosen by Expert 80	Cat,		į	2	3,	Totals	Agreement	Agraement	of sappa
		+++	+++++	+++++	***	++++++++	·/		
Used	1	+ +	7	5	0	+ 12 +	.583	.667	,543
Not used	2 ,	+	1	75	0	+ 76 +	.987	.950	.882
other	3	`+ +	, O	0	2 "	* 2 *	1.000	1.000	1.000
	•	+ ++	++++	+++++	· + + + +	********	•		•
, Marginal 1	rotals	+ +	8	80 4	, 5	÷ 30/	•		4
		+.+	+++++	++++	b + + + +	++++++++++++	•	,	₹.

category Marginal Agreement: .872

Cohen's Kappat . 719

Phase	IV	- I	GE	Eva	lua	tl	on	Pr	0)	ec	t
Descr	Ipt	Ive	S	tudy	e n	51	rl	n9'	19	78	

Reliability on Materials
Observed 30 Expert 80
School 801 Grade 2
Week 9 Day 5
WDRSD

Material: Manipulative

•									•	Ď		\ \
•				•	Cated by Ob	ióry ch server	osen - 30	Marginal	Nominal	Marginal	Lightis	n
Cat	egory shosen Expert 80		Cat.	•	1	, s	3 .	Totals	Agreement	Agreement	of Kappa	•
				++4	+++++	, ,+++++	++++	++++++++				,
				+	53	3	0 (÷ 56	946	.982	.357	٠,
•	⊎sed	•	•	*	0	,	0	+ 0	•	0.000	***********	•
	Not used	•	. 5	+	v	•	2	+ 4	+ + •500	.500	,483	. 0
	· other	, '	3	+	2	0	. 5	. •	•		•	
	7	•		++	+++++	+++++	++++	+++++++++	+			
	· . Margina	i Te	otals	+	55	3	2	÷ 60	÷		1	,
				*		* * * * * 	++++	++++++++	*	,	3	4
	· ·			**	4		_	o o	·		,	519

518

Category Marginal Agreement: .494

Cohen's Kappa: .414

ERIC

Table 269

Reliability on Materials
Observer 40 Expert 80
School 801 Grade 2
Weak 9 Day 5
WDRSD

Material: Manipulative

Category chosen by Expert 80	Cat.		agory (Observe		Marginal Totals	Nominai Agréement	Marginai Agreement	Lightis Extension of Kappa
•		+++++	+++++	+++++	+++++++++	•		·
U se d	1	+ + 45	11	0	+ + 56	+ + •804	.804	.214
Not used	a .	+ + 0	0	0	+ 0	ተ • መውመምማ	0.000	(400 can (401 can can
other	3	+ 0	2	2	+ 4	+ .500	,500	.483
		+ ++++++	+++++	**** *	* *+****	* *	•	
ų.		•			+	•		
Marginal '	Totals	+ 45 •	13	2	+ 60 +	+ +	t	
		+++++	+++++	+++++	++++++++	+		

Category Marginal Agreement: .435

Cohen's Kapps: .272

FRIC

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 5
DMP

Material: Manipulative

		by O	aorý c serve	hosen r 10	Na mana Lafari I	Nominal	Marginal	Light's Extension
Category chosen by Expert 90	Cat.	1	2	(3	Marginul Totals	Agreement	Agreement	of Kappa
	+	+++++	+++++	+++++	. + + + + + + + + +	•		
· Used	+ 1 +	0	0	0	+ 0) (14 on as in 40 on .	0.000	*******
Not used.	5 +	1	73	3	+ 77		.987	• 45 5
Other	÷	0	3	4	+ 7	.571	1.000	,532
•	*	****	*****		* *******			•
Marginal	+ Totals +	1	76	7	+ 84	+ +	(,
•	•	+++++	+++++	. + + + + +	++++++	•		523
522		o.	ſ				r	

Category Marginal Agreement: .662

Cohen's Kappa: .491

ERIC

Reliability on Materials
Observer 30 Expert 80
School 801 Grade 2
Week 9 Day 5
DMP

Material: Manipulative

	,e	Cated by Ob	ory ch	osen 30	ų.	Nominal	- Marginal	Light18 Extension
Category chosen by Expert 80	Cat • *	1	. 5	3	Marginal Totals	Agreement	Agreement	of Kappa
*	•	+++++	++++++	++++	*****	,	, ·	
	+	0	1	0	+ + 1 +	0.00	0.000	0.000
Used ·	+	•		\	•	1.000	.988	1.000
Not used	S +	0	80	0	+ B0 +	, , ,		1.000
other	3 +	0	. 0	3	+ 3 +	1.000	1.000	7 4 000
•	+	+++++	+++++	+ + + + +	+++++++++	•	•	•
Marginal	totals +	0	81	3	+ 84 · ·	•		
		+++++	+++++	++++	++++++++	•		A

category Marginal Agreement: .663

Cohen's Kappa! .85

323

Table 272

Phase	IV	-	IBE	Eva	lua	tion	Pr	olect
Descr	IPt	10	e St	udy:		Sprl	n 9	1978

Reliability on Materials
Observer 40 Expert 80
School 801 Grade 2
Week 9 Day 5

Material: Manipulative

Category chosen by Expert 80	Cat.		gory choserven		Marginai . Totals	Nominai Agreement	Marginal Agreement	Light's Extension of Kappa
	•	+++++	+++++	++++	+++++++++			•
Used	1 4	1	0 _	0	+ 1 +	1.000	1.000	1.000
•		• 0	80	0	+ 80 4	1.000	1.000	1.000
Not used	. 2			3	+ 3	1.000	1.000	1.000
other	3		0	3	+			•
	•	• * • • • • •	****	++++	· • • • • • • • • • • • • • • • • • • •	•		
Marginal	Totals	1	80	3	+ 84			
	,	* + + + + + + +	****	++++	******	•		527

526

Category Marginal Agreement: 1.000

Cohen's Kappel 1.000

Table 273

Reliability on Materials
Observer 40 Expert 80
School 801 Grade 5
Week 9 Day 4
DMP

Material: Game

Category chosen Cat, by Expert 80 #	by Ob		:hosen er 10 '3	Margina Totali		Nominal Agreement	Marginal Agreement	Lightis Extension of Kappa
- · • • • • • • • • • • • • • • • • • • •	· + + + + + +	++++	++++	++++++	+++		•	
+				+	•	ı		•
Used . 1 +	0	4	0	+ 4	•	0.000	000.0	0.000 <
•				+	+		4	
Not used 2 +	0	74	0	+ 74	•	1.000	.881	1.000
•				+	+			
Other 3 +	٥,	6	6	+ 12	+	•500	.500	.464
+				•	+	•		
++	+++++	++++	+++++	+++++++	+++			`.
+ ,	4			+ .	•	<i>t.</i>		•
Marginal Totals +	0	84	6	+ 90	+	f		
•				+	+	+		
+ •	+++++	++++	++++	+++++++	++		•	

Category Marginal Agreement: .460

Cohen's Kappal ,50:

Table 274

Phase IV - IGE Evaluation Project Descriptive Stydy - Spring 1978

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 5
DMP

Material: Game

	ategory chosen	Cat.		gory coserve	hosen er 10	Marginal	Nominal	Marginal .	Lightis
	by Expert 90	*	1	5	3	. Totals	Agreement	Agreement	of Kappa
		*	+++++	* * * * * *	++++	******	·	•	
	Used	1 +	0	33	1	+ 34 +	0.000	.0.00	0.000
•	Not used	5 + +	• 0	41	. 2	+ 43 +	.953	.558	.442
	other	3 +	0	3	4	+, 7	.571	1.000	,532
		+	· ·+++++	++++	·++++	******	•		
	Marginal To	tals +	0	77	7	+ 84 +			·
	7	•	· · + + + + +	++++	++++	******			533
530	۲.								

category Marginal Agreement: .519

Cohen's Kappa: .114

ERIC

> Reliability on Materials Observer 20 Expert 90 Grade 2 School 801 Week -9 Day 5 DMP

> > Material: Game

			Cated by Ob	jory ch server	osen 20			Nominal	Marginal	Light's Extension
Cate by	gory chosen Expert 90	Cat.	1	' 2	. 3 , .		arginal Totals	Agreement	Agreement	of Kappa
			,+++++	+++++	++++	* + + +	++++++	+ .		,
	Used	1 4	0 "	33 `	1,1	+	34	+ 0.000	0.000	Q. 000
	Not used	2 (+ • 0	40	3	+	43	+ .930	•573	.349
,	Other	3	• • '0	5	5	+ +	7	+ + .714 +	.778	, ,680
	•	•	* +	+++++	+++4	;+++	****	*	ş.	
	Marginal	Totals	+ → . 0	75 .	9	+ + +	· 84	* **	•	•
		. •	+++++	+++++	• + + + 1	, + + 	++++++	, .	ŀ	

Category Marginal Agreement!

Cohen's Kappa! .131

533

Table 276

Phase IV - IRE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Materials
Observer 30 Expert 80
School 801 Grade 2
Week 9 Day 5
DMP

Material: Game

			Cated by Ob	ory c	hosen r 30	Marginal	Nominal	Marginal	Lightis	
Cated by 6	pory chosen Expert 60	Cat. #	1	2	3	Totals	Agreement	Agreement	of Kappa	
_, ,		••	· + + + + + +	++++	++++	+++++++++				
		+		0	0	+ 8 +		.800	1.000	
	Used	1 +	8			+	. 973	.973	.823	
	Not used	2 +	2	71	0	+ 73 +	•		1.000	
	other	3 +	0	0	3	+ 3 +		1.000	1,000	
		* *	+++++	++++	++++	++++++++	.			
	Marginal	')tals +		71	3	+ 84 +	* + •	·		
m 0.4		*	++++	++++	++++	.+++++++	*		535	Ď

Category Marginal Agreement: .924

Cohen's Kappa: .906



Table 277

Reliability on Materials
Observer 40 Expert 80
School 801 Grade 2
Week 9 Day 5
DMP

Material: Game

	•	Cated by Ob	ory chiserve	1058N	Marginal	(Nominal	Margj _i nal	Lightis Extension
by Expert 80	t o H	1	'5	3	Totals	Agreement	Agreement	of Kappa
•	•	+++++	++++	++++		•		•
∵ U sed : .	1 +	6	2	0	+ 8, +	. 750	, 750	,731
,	2 4	0	73	.0	+ 73	1.000	.973	1.000
other	3. (0	·o	3	+ 3	1.000	1.000	1.600
	•	, , • • • • • • •	+++++	++++	+++++++++	•		
Marginal Total	, 8	6	75	3	+ 84 ·		•	•
	•	· ++++++	++++++	++++	++++++++	•		

536

Category Marginal Agreement: .90

Cohen's Kappal .89

537 %

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 2
Week 9 Day 5
WDRSD

Material: Audio/visual aid

	Category chosen Cat				ory c	nosen r 20		arg na	Nomina!	Marginal	Lightis Extension	
	Expert 90	#		1	s	3		rotals		Agreement	Agreement	of Kappa
	<i>(</i>		+++	++++	++++	++++	+++	+++++	++			
	Used	1	+ +	0	0	0	+	0	+	90° 40° 452 60° 190°	0.000	\$7 \$20 CO KW BD
•	Not used	2	+	3 ′	55	0	+	56	+	.948	•948,	.690
	Other .	3	+	0	0	8	+ + •	8	+	1.000	1.000	1,000
			++++	++++	* + + + +	++++	. + +++•	* * * * * *	++		·	
	Marginal	Totals	* *	3	55	8	+	66	+		•	
533			++++	++++	++++	++++	+++	* + + + +	++			539

Category Marginal Agreement! .649

Cohen's Kappa: 0820



Table 279

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 5
Week 9 Day 4
DMP

Material: Printed material

				sory c	hosen r 10				Marginal	Lightis Extension	
Category chosen C by Expert 90	Cat. #		1	2	3		tals	Nominal Agreement			
•	٠	+++	+++		++++	++++	****	4	•		
Used	1	+	8	3	0	+	11	+ + ,727	1.000	,689	
Not used	5	+	5	72	0	+ ,	74	+ ,973	.987	.838	
other	3	+	1	o	4,	+	5	+ .800	.800	,791	
		+++	+,4++		++++	++++	+++++	*			
Marginal Tota	1 \$	+ + + +	11	75	4.	+ + +	90	+ + +			
		++4	++++	+++++	+++++	++++	+++++	•		•	

Category Marginal Agreement: .929

Cohen's Kappa! .776

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 20 Expert 90
School 801 Grade, 5
Week 9 Day 4
DMP

Material: Printed materia!

			Cated by Ol	gory cl	nosen r 20	Marginal	110000	Marginal	Lightis	
Category by Exper		Cat.	1	, 2 ,	3	Totals	Agreement	Agreement	of Kappa	
		•	⊦+++++ ⊦ ″	+++++	++++	+ + + + + + + + + + + + + + + + + + +	636	.727	.601	
Use	d	1	• · 7	• 4	0	+ 11 +		.987	.757	
Not	ușed	2	. 1	71	2	+ 74	•	.714	1.000	
oth	er	3	• 0	0	5	+ 5 +	1.000	• • • •	- •	
			* +++++	+++++	++++	++++++++	• •		•	
	Marginal	Totals	+ 8	75	. 7	+ 90 +	• •			
542			+++++	+++++	>++ +++	++++++++	+ . A.			543

Category Marginal Agreement: .809

Cohenis Kappai .740 .

Table 281

Reliability on Materials
Observer 40 Expert 80
School 801 Grade 5
Week 9 Day 4
DMP

Material: Printed material

·			ory coserve			rgina	. 1	Nominal	Marginal	Light:s Extension	
Category chosen by Expert 80	Cat.	1	5	. 3	Totals			Agreement	Agreement	of Kappa	
	•	·+++++	+++++	++++	++++	++++	+++		,		
∪sed	1		0	0	*	14	+	1.000	.737	1.000	
Not used	2 •	5	59	0	+	64	+	,922	•985	.719	
other	. 3	+ 0	6	6	+ +	12	•	•500	.500	,464	
	•	, , , , , , , , , , , , , , , , , , , ,	++++	++++	****	++++	+++				
Marginal '	rotals :	• • 19	65	6	+ + +	90	+ +				
	,	• ++++++	+++++	++++	++++	++++	+++		Alexander wa		

Category Marginal Agreements .740

Cohen's Kappal .725

Reliability on Materials
Observer 40 Expert 80
School 801 Grade 2
Week 9 Day 4
WDRSD

Material: Printed material

		Cate by C	agory (hosen er 40	.4	Nominal	Marginal	Light's Extension
Category chosen by Expert 80	cat. #	, · 1	2	3	Margina! Totals	Agreement	Agreement	of Kappa
•	•	•++ <u>+</u> +++	++++	+++++	++++++++	÷.	•	•
Used	1	•	9	0	+ 17 +	.471	.471	, 389
Not used	2 .	+ 0	25	0	+ 25 +	1.000	.735	1.000
other	. 3	+ 0	0	18	+ 18 +	1.000	1.000	1.000
Q · C	,	+ +++++	+14+++	****	* *******	,		
marginal To	tals	+ + 8	34	18	+ 60 +			
546		+ +++++	+ + + + +	+++++	. + + + + + + + + +		,	54'
	•					•		

category Marginal Agreement: .. 735

Cohenis Kappa: .764

ERIC

Table 283

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Material: Printed material

Octoron whose	C = 4	Catagory choson by Observer 10					Marginal Nom		Nominal	Marginsi	Light's Extension
by Expert 80	Cat,		1	5	3		Totals	•	Agreement	Agreement	of Kappa
·		+++	++++		++++	+++	+++++	++			
Used	1	+	6	1	0	+	7	+	.857	.875	.841
Not used	2	+ +	5	65	0	+	67	+	.970	.971	.741
other	3	+ +	0	3	1	+	4	+	.250	.250	.240
		+ +++	++++	* * * * *	++++	+ +++	* + + + + + *	+			
Marginal Tot	ais	+ +	8	69	1	+ +	78	+ + +			
		*	+ + + +	+++++	++++	+++	*****	+ +			

Category Marginal Agreement: .699

Cohen's Kappa: .666

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 5
Week 9 Day 5
DMP

Material: Printed material

			serve	chosen er 10			•			Lightis
Category chosen by Expert 90	Cat.	1	5	3		otals	İ	Nominal Agreement	Marginal Agreement	extension of Kappa
	++	,	· + + + + ·	++4++	+++	· + + + + ·	++	3		
U s ed	1 +	0	1	0	+ +	1	+	0.000	•100	125
Not used	5 4	10	66	0	+ + .	76	+	.868	•908	.436
Other	3 +	0	s	11	+	13	+	.846	.846	.825
	* **	+++++	++++	+++++	+ + + ·	++++	++	L		
Marginal Tot	+ + 2 6; +	10	69 ++++	11	+ + +	90 ••••	+ + + ++			
550	•		·							551

Category Marginal Agreement: .618

Cohen's Kappa! .567



Table 285

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 5
Week 9 Day 5
DMP

Materiali Printed material

antany ahaaa	Cat		Category choosy object to the control of the contro				ginal	Nominal	Marginal'	Light's Extension	
Category chosen by Expert 90	#		1	5	3		tals	Agreement	Agreement	of Kappa	
		+ ·	+++++	++++	++++	****	++++	•			
Used	1	+	0	1	0	+ +	1	+ 0.000	0.000	0.000	
Not used	1 5	+	o ,	76	0	+	76	÷ 1.000	,974	1.000	
Other	3	•	0	1	12	*	13	+ ,923	.923	.911	
		+	++++	· + + + +	. 4 + + + 4	· + + + +	++++	• •			
Marginal T	otals	+ +	0	78	12	* * *	9 v	+			
`		+	++++	++++	+++++	++++	++++	•			

Category Marginal Agreement: .632

Cohen's Kappa! .911

ERIC

Phase JV = IGE Evaluation Project Descriptive Study = Spring 1978 .

Reilability on Materials
Observer 30 Expert 80
School 801 Grade 5
Week 9 Day 5
DMP

Material: Printed material

			gory c		Marginal	Nominal	Marginal	Light's Extension	
Category chosen by Expert 80	Cat.	1 2 3		Totals	Agreement	Agrenment	of Kappa		
	+ •	+++++		++++	* * * * * * * * * * *	•	,	,	
Used	+ 1 +	13	1	0	+ 14 +	. 929	.933	.914	
Not used	5 + +	2	72	0	* 74 *	. 973	.987	.838	
Other	3 +	0	2	. 0	+ 2	0.000	0.00	0.000	
	+	* * * * * *	++++	++++	*****	,			
Marginal	+ Totals +	15	75	0	+ 90			, , , , , , , , , , , , , , , , , , ,	~ s.
	*	+++++	++++	+++++	++++++++	,		5	55
554						·			

Category Marginal Agreement: .640

Cohenis Kappa! .808



Table 287

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 40 Expert 80
School 801 Grade 5
Week 9 Day 5
DMP

Material: Printed material

Category chosen by Expert 80	Cat.		lory c servė		Nominal Agreement	Marginal Agreement	ilghtis Extension of Kappa	
	+	++++++	++++	++++	+++++++++			•
used	1 +	12	5	0	+ 14 +	,857	.929	.833
Not used	5 +	1	73	0	+ 74 +	. ,986	.987	.919
other	3 +	0	0	2	+ 2 +	1.000/.	1.000	1.000
	+	· • + + + + + +	*****	. + + + +	*******		5	,
Marginai To	tals 4	13	75	5	90	,		
•	•	, , , , , , , , , , , , , , , , , , , ,	++++	++++	****	•		

catagory Marginal Agreement: .972

Cohenia Kappa: .886

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 5
WDRSD

Material: Printed material

Category chosen by Expert 90	Cat. #		gory cl bserve		Ma	rginal otals	Nominal Agreement	Marginal Agraement	Lightis Extension of Kappa
			+++++		+++	*****	• •	P.	
	, , , , , , , , , , , , , , , , , , ,	* * * * * *		• • • • •	•	• • • • •	.		
U s ed	1 +	10	4	0	*	14	+ .714	.714	.663
Not used	5 + +	0	43	1	*	44	+ .977	• 936	.921
Other	* 3 *	0	0	8	+	8	+ 1.000	.889	1.000
	+		* * * * * * *	 .	* ****	+++++	+		
			. ,	• • • • •	4		•		
Marginal	Totals +	10	47	9	+	66	• •		559
558	+	+++++	*****	++++	++++	++++	•	,	

category Marginal Agreement: .846

Cohen's Kappai .841

Table 289

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 2
Week 9 Day 5
WDRSD

Material: Printed material

Category chosen by Expert 90	Cat. #	Cated by Ob 1	ory choserver	3	Marginal Totals +++++++	Nominal Agreement	Marginal Agreement	Lightis Extension of Koppa	
[∉] . U sed	1 +	0	14	0	+ 14 +	0.000	0.000	0.000	
Not used	/ 2 · +	0	44	O	+ 44 +	1.000	. 759	1.000	
other	3 +	0	, °	8	+	1.000	1.000	1.000	
•	+	+++++	· >	* * * *	* ********	•	•	C)	
Marginal 1	+ + *letor	0	58	8	*	, , , , , , , , , , , , , , , , , , ,		·. ′	
<i>k</i>	<i>y</i> . •	· • + + + + + + · •	***	* * * * *	***	•	•		

category Marginal Agreement: .586

Cohen's Kappa: ,469

Table 290

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 5
DMP

Material: Printed material

		Category chosen by Observer 10			Marginal	Nominal	Marginal	Light's Extension	
Category chosen by Expert 90	Cat. #	1	5	3	Totals	Agreement	Agreement	of Kappa	
	•	+++++	+++++	++++	*****				
Used	1	• 0	1	0	+ 1 +	0.000	0.000	0.000	
Not used	5 4	•	73	3	+ 76	.961	.987	.526	
other	3 .	• 0	3	4	+ 7	.571	1.000	,532	
	•	+ + + + + + + +	++++	++++	*****				
Marginal To	tals	+ · · 0	77	7	+ 84			<	
		+ +++++	++++	++++	* · + + + + + + + + ·			ŗ	
12									

Category Marginal Aureement: .662

Cohen's Kappa! .491



Table 291

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 2
Weak 9 Day 5
DMP

Material: Printed material

		Category che by Observer				Marginal		Nominal	Marginal	Light's Extension
Category chosen by Expert 90	Cat. #	1	5	3	Totals			Agreement	Agreement	of Kappa
•	•		+++++	++++	+++	++++	+++		<u>.</u>	
	1 +	_	1	0	*	1	+	0.000	0.000	0,000
Used .		•	-		*		+	0.47	.987	.509
Not used	გ ∢	0	72	4	+	76	+	.947	,	•
other	3	• 0	5	5	+	7	+	.714	.778	.680
	•	! 		++++	+++	++++	+++		,	
	·	• • • • • • • • • • • • • • • • • • •	• • • • •		4		+			
Marginal	Totals	• 0	75	9	+ +	84	+			
		* ******	+++++	+++	+++	++++	+++			

Category Marginal Agreement: .588

Cohanis Kappai .545

ربي 1.٠ زما

565

Table 292

Reliability on Materials
Observer 10 Expert 93
School 801 Grade 5
Week 9 Day 4
DMP

Material: Other

Category chosen	Cat.		tegory c Observe		Marginal	Nominal	Marginal	Light's Extension
by Expert 90	#	3	1 2	3	Totals	Agreement	Agreement	of Kappa
	*	+++		++++	* * * * * * * * * * * * * * * * *	; • '		
Used	1 +	1 1	1	0	+ 12	.917	.917	,905
Not used	S +	(73	0	+ 73	1.000	.973	1.000
ot er	3 +	(1	4	+ 5	. 800	.800	.791
	* *	+++ /*	++++++	++++	******			
Margina	Totals +	1	75	4	+ 90			
	+	++++	· + • • · · · ·	++++	*****	•		567
566								007

Category Marginal Agreement: .897

Cohen's Kappai .927



Table 293

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 5
Week 9 Day 4
DMP

Material: Other

	egory chosen Expert 90	Cat.		ory choserver		Ma	argina Totali		Nominal Agreement	Marginal Agreement	Lightis Extension of Kappa
		+	+++++	+++++	****	+++	++++	+++			
	Used	+ 1 +	11	1	0	+ +	12	+	.917	,923	,903
,	Not used	5 +	2	69	5	* +	73	* *	,945	• 959	,753
	other	3 +	0	0	5	* +	5	+	1.000	714	1.000
		+	+++++	+++++	++++	+++	++++	+++			
	marginal To	+ tals + +	13	70	7	+ + +	90	+ +			
		*	+++++	****	++++	+++	* * * *	+++			

Category Marginal Agraement: .865

Cohen's Kappal .839

Table 294

Reliability on Materials
Observer 40 Expert 80
School 801 Grade 2
Week 9 Day 4
DMP

Material: Other

Category choser by Expert 80	n Cate		dory c bserve		Marginal Totals	/ Nominal Agreement	Marg nal Agreement	-Lightis Extension of Kappa
And .		++++++	+++++	++++	++++++++	•		
Used	1	+ 5 +	0	0	+ 2	+ 1.000	1.000	1.000
	2	+	72	. 0	+ 72	+ + 1.000	.960	1.000
Not used	3	+	3	1	+ 4	+ + ,250	.250	.240
other	•	+			+ ++++++++	+ +	,	
	naj Totais	+ 5	75	1	+ + 78 +	+	4 '	571
570					++++++++	*		•

Category Marginal Agreements .737

Cohenis Kappai . 654



Table 295

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 5
Week 9 Day 5
DMP

Material: Other

		Cated by Ot	ory C	hosen r 10	Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expert 90	Cat.	1	5	3	Totals	Agreement	Agreement	of Kappa
1			+++++	+++++	++++++++	•		
	1	• S	4	0	+ 6 4	• 33?	.333	.318
Used	•	•		_	÷ 73	1,000	.922	1.000
Not used	5 ·	• 0	71	0	•	,	~ 1 £	.825
other	3	+ 0	5	11	+ 13	.846	.846	•023
		* ++++++	++++	+++++	++++++++	•		•
Marginal	Totals	+ 5 +	77	11	+ 90 +	∀ ↓		
		~ ++++++	++++	+++++	++++++++	+		

Category Marginal Agreement: .701

Cohenia Kappai .782

Phase IV - IGE Evaluation Project, Descriptive Study - Spring 1978

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 5
Week 9 Day 5
DMP

Material: Other

	0.4	Categ by Ob			Marginal	Nominal	Marginal	Light's / Extension
Category chosen by Expert 90	Cat.	14	5	3	Totals	Agreement	Agreement	, o∳ Kappa
•		++++++	++++	++++	*****			1
, U s ad	1	♦ a 0	6	0 ,	+ 6	0.000	° 0.000	0.000
Not used	2	+ 0	71	0	+ 71	1.000	.910	1.000
other	3	+ 0	1	12	+ 13	,923	, 923	, ,911
	q	* * * * * * * * * * * *			* *****			
Marginal Tot	tals	+ + 0	78	12	+ 90	•		
	•	++++++	++++	++++	++++++++	•		575

574

category Marginal Agraementi .611

Cohenis Kappal .738



Table 297

Reliability on Materials
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 5
WDRSD

Material: Other

Category chosen by Expert 90	Cat.		observ 2	chosen er 10	Marg	ilnal als	Nominal Agreement	Marginal Agreement	Light:s Extension of Kappa
		++++	+++++	. + + + + +	+++++	++++			,
used	1	+ (1	0	+ +	1	0.000	1.000	015
Not used	5 4	• •]	. 5 5	1	+ 5 +	57	965	•982	.768
other !	3 .	· · (0	8	,	8	1.000	.889	1.000
	•	+ + + + + + + +	> + + + + + + +	+++++	+ +++++ +	; ; + + + + ; ;			
arginal T	otals :	· ♦ :	56	9	+ 6 +	66	•		e.
	•	++++	+++++	+++++	+++++	++++	•		

category Marginal Agreement: .957

Cohen's Kappal .819

577

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 2
Week 9 Day 5
WDRSD

Material: Other

•		category chosen by Observer 20					argina	1	Nominal	Marginal	Lightis Extension	¥.
Category chosen by Expert 90	Cat.		1	5	3		rotals		Agreement	Agreement	of Kappa	
		++++	+++	++++	+++	+++++	+++++	++	•	· 1	,	
A Lambert	» 1	+	() ()	1	0	+ +	1	+	0.000	0.000	0.000	•
Used ;.	5	•	0	57	0	+	57	+	1.000	,983	1,000	
Not used Other	3	+	0	0	8	+	. 8	+	1.000	1.000	1.000	
• • • • • • • • • • • • • • • • • • • •		+ + + + +	++++	++++	++++	+ ++++	+++++	+ ++•	ï			
marginal T	otais	+ + + -	0	59	8	+ + +	66	+	•		5	573
		++++	++++	+++++	++++	+++	+++++	+++				

category Marginal Agreement 661

Cohen's Kappa! .933

ERIC

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

> Reliability on Materials Expert 90 Observer 10 School 801 Grade 2 Week 9 Day 5

> > Material: Other

		рА	egory Observ			, 		Nominal	Marginal	Lightis Extension
Category chosen by Expert 90	Cat. #	1	. 2	3		argina Totals		Agreement	Agreement	of Kappa
	*.	+++++	. + + + + +	++++	+++	* + * + + *	++	•		
Used	3	+ 1	. 0	o	+	. 1	+	1.000	.500	1.000
Not used	5	+ 1	72	3	+	76	*	.947	.98 7	.509
other	3	+ (3	4	+ +	, ,	+	•571	1.000	.532
'		+ 			* ++++	+++++	* + + +	1		•
		+ + + + , + :		, , , , , ,	+		+			
Marginal	Totals	+	2 75	7	a + +	84	+		•	
		++++	+++++	+++++	++++	++++	+++			

Category Marginal Agreement: . 829

Cohen's Kappa! .549

550

Reliability on Materials
Observer 20 Expert 90
School 801 Grade 2
Week 9 Day 5
DMP

Material: Other

Value of the second of the sec					hosen r 20	•			· ·		Lightis
Category chosen C by Expert 90	at. #		1	5	· 3 ·		arginal otais		Nominal Agreement	Marginal Agreement	Extension t of Kappa
	+	++++	+ + + -	* + + + 4	+++++	+++		+			16
Used	1 +		0 .	1	0	+ +	1	+	0.00	1.000	012
Not used	5 +	K	1	71	4	* *	76	+	,934	.974	. 447
Other	3 +		0	5	5	♥ ° +	7	+	.714	.778	.680
	+	· • + + + +	+++	++++		++++	++++	+ +			
Marginal Tota	+ S + +	•	1	74	9	+ +	84	+ + +			
	+	++++	+++	++++	+++++	+++	+++++	++			583

582

category Marginal Agreements ,917

Cohen's Kappal .509

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 30 Expert 80
School 801, Grade 2
Week 9 Day 5
DMP

Material: Other

a e			ory c		· .		Lightis	
Category chosen by Expert 80	Cat.	1 by 0b	serve	3	Marginal Totals	Nominal Agreement	Marginal Agreement	Extensión of Kappa
, ·	, +	++++++	+++++	++++	+++++++++	•		
U se d	+ 1 +	0	1`	0	+ + + +	0.000	0.000	0.000
Not used	5 + +	. 0	80	0	+ 80 +	1.000	988	1.000
other	3 +	0	0	3	+ 3 +	1.000	1.000	1.000
	+	++++ ++	++++	++++	++++++++	•	•	
* Marginal To	tals +	0	81	3	+ 84 + + 84 +		•	
	+	++++++	++++	++++	+++++++++			
		*		,	*		•	

Category Marginal Agreement1 ,663

Cohen's Kappal .852

Reliability on Materials*
Observer 40 Expert 80
School 801 Grade 2
Week 9 Day 5
DMP

Material: Other

,	ē.	•		Cated by Ob	,	chosen. er/40				Lightis
	ory chosen expert 80	. Cat.	•	1	5	3 [†]	Marginal -Totals	Nominal Agreement	Marginal Agreement	Extension of Kappa
· ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `		\	\ + +	++++++	+ + + + •	¥++++	· + + + + + + + + + +	•	* / N	
, ,	Used	1.11	+	1	0	0	†	+ 1.000	. 1.000	1.000
	Not used	2	+	0	80	0	+ . 80	÷ 1'.000	1.000	1.000
, <u>k</u> , , ,	other	3	+	, 0 ,	0	3	+ 3	+ 1.000	1.000	1,000
	•		++	+++++	++++		* *********	* **		
	Marginal	Totals	+	1	80	3	+ 84	+ + +		
556	,		++	+++++	++++	+++++	++++++	· ••		587

category Marginal Agreement: 1.000

Cohen's Kappa! 1.000

ERIC

Table 303

Reliablity on Learner Moves
Observer 10 Expert 90
School 801 Grade 5
Week 9 Day 4
DMP

Caba	8.4		tegory	cho:	an by	Obs	Brver	10	Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expert 90	Cat.	1	5,	3	4.	5	6	7	Totale	Agreement	Agreement	of Kappa
•		******	****	****	****	***	****	****	*******	,	-	
Engaged - written	1	+ 21	1	7 ′	0	0	0	0	29	.724	.897	,612
Engaged - oral	2	+ 0	S	1	1	1	2	0		.375	.750	,330
Engaged - covert	3	÷ 5	1	5	2	0	5	0	15	.333	.789	,155
Not engaged - interi	m 4	+ 0	0	2	12	0	1	0	15	. 800	.882	,753
Not engaged - waitin	g 5	+ 0	1	1	0	0	1	0	3	0.000	.333	011
Not engaged -off tes	k 6	+ 0	0	3	1	·	11	0	15	•733	.882	.671
None of the above	7	+	0	0	1	9	0	4	5		.600	.791
		* ******	• • • • •	****	*****	***	• • • • •	*****	•	,		
Merginal To	tals	+ + 26	6	19	17	1	17	4	90)		
		* ******	• • • • •	++++	*****	++++	****	*****	*******	,		* *.

Cohenis Kappai .526

Phase IV # 188 Evaluation Project Descriptive Study # Spring 1976

Reilability on Learner Moves
Observer 20 Expert 90
School 801 Grade 5
Week 9 Day 4
DMP

	ì	Cat	egory	, čpos	en by	0580	rver	20	Marginai	Nominal	Marginal	Light's Extension
Category chosen by Expert 90	Cat.	1	2	3	'	5	6	7	Totals	Agreement	Agreement	of Kappa
9			****	****	****	****	****	****	*****			
•	•	+ 55 +	0	6	0	0.	1	0	29	.759	.697	.661
Engaged * Written	•	♦	•	0	0	2	2	0	+ 8	,500	1.000	,451
Engaged - oral	5	• 0 •	-	•		_	0	0	+ 15	• • 533	,862	,425
Engaged - covert	3	• 3 •	3	8	1	0	V		•	• • 8 00		.750
Not engaged - Interl	m 4	+ 0	. 0	1	12	0	,	1	+ 15	•	,	,310
Not engaged - weltin	g 5	• 0	0	1	1	1	0	0	• 3	,333	1.000	
		+	1	1	4	0	7	1	15	. 467	, 733	,398
Not engaged woff tas		•	0	0	9	0	0	5	♦ 5	• 1.000	.714	1.000
None of the sbove	7	• 0 •	÷						* ********	•		
		******	****	****	****	•••	****	_	+	•		
marginal To	tals	26	8	17	18	3	11	7	• • 90 •	▼		
		*****	****	****	****	****	* * * * *	• • • • •	*******	•		

catagory Marginal Agreement! .866

Cohen's Keppel .874 589



Table 305

Phase IV - IGE Evaluation Project

Descriptive Study - Spring 1978

Reliability on Learner Moves
Observer 40 Expert 80
School 801 Grade 5
Week 9 Day 4

									•			1
	. '	Cat	agor	/ chos	en by	y 0bs	brver	10	Marginal	Nominei	Marginal	Light's Extension
- Gategory chosen by Expent 80	Cat.	1.	5	' 3	4	5	6	7	Fotals	Agreement	Agreement	of Kebbe.
	•	****	****	• • • • •	****	• + • • •	* * * * * *	****	******			,
Engaged - written	1	13	0	1	1	0	0	0	15	.867	,938	* 8CA.
Engaged - oral	5 (. 0	2	0	0	0	0	0	2	1,000	.500	1.000
Engaged - covert	3 (1	1	55	0	4	2	0	30	,733	.900	. 619
hot engaged - Inver	 m	0	0	0	ą	1	0	0	• 3	.667	.750	.651
Not engaged - waiti	•	0	0	4	0	11	0	0	15	4733	.682	,647
Not engaged coff tax	sk 6) x 2	1	0	0	ì	·*9	0,7	13	,692	. 846	,649
None of the above	7	• 0	0	0	1	5	0	6	12	.500	. 500	` ,464
	•			* * * * *	****	****	****	*****	*******	•		
Marginal T	otals :	16	4	27	4	55	11	6	* • 90	• •		•

Category Marginal Agreement! .731 Cohenia Kappel .653

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Learner Moves
Observer 10 Expert 90
School 801 Grade &
Week 9 Day 4
WDRSD

Category chosen		Cet	2 90r)	chos	en by	0684	rver	10	Marginal	Nominai	Marginal	Light's Extension
Category chosen by Expert 90	Cat.	1.	2	3	4	ş	6	7	Totals	Agreement	Agreement	of Kappa
•	•	*****	****	· •. • • • •	****	***	****	****	******			
Engaged - written	1 +	3		1	0	. 0	0	0	• •	.750	1.000	,734
Engaged = ofal	s +	0	3	2	1	0	0	0	+ 6	.500	,667	,460
Engaged - covert	3 +	1	1	32	0	2	5	0	+ 38	.842	.974	,614
Not engaged - interin	•	0	0	0	0	0	0	0	÷ 0	*****	0.000	
Not engaged - waiting	♦	0	0	0	0	0	0	0	÷ 0	******	0.000	
Not engaged woff test	•	0	0	8	1	0	3	0	• 6	500	,833	,459
None of the above	7 +	0	0	2	1	1	0	8	+ 12	,667	,667	,621
t .	•		· • • • •	* * * * * *	• • • • •	+4+++	****	****	*****	v ♦		49. g
Marginal To	tals +	4	4	39	3	. 3	5	8	46	• •		•
	• •	• • • • • •	• • • • •	****	****	*** *	• • • • •	++++	*****	•		,

Category Marginal Agreements .598

Cohenis Kappel :501



Table 307'

Phase IV - 102 Evaluation Project Descriptive Study - Spring 1978

Reliability on Learner Moves
Observer 20 Expert 90
School 801 Grede 2
Week 9 Day 4
WDRSD

*										, ,		
		Çat	egor	y choi	en jby	0b s (ļver	20	Merginal	Nominel	Marginei	Light's Extension
Cetegory chosen by Expert 90	Cat.	1	5	3	. 4	5	. 6	. 7	Totels	Agreement	Agreement	of Kappa
,	• •	*****	****	****	****	****	*** *	*****	*****	♦		
Engaged - written	1 +	3	0	0	0	0	0	1	• •	• •750	.750	867,
Engaged - oral	5 +	0	4	1	1	0	0	0	6	• •667	1.000	, 633
Engaged - covert	3 +	0	2	34	0	1	. 1	0 1.	38	• ,895 •	1.000	.752
Not engaged - interim	4 +	0	0	0	0	0	0	0	• 0	· • ••••	0.000	
, Not engaged - walting	5 +	0	0	0	0	0	0	0	• 0	* • • • • • • • • • • • • • • • • • • •	0.000	·#####
Not engaged -off task	6 +	0	0	3	0	9	3	0	• 6	. 500	. 657	,441
None of the above	7 •	0	0	0	0	0	3	9	12	• •750 •	, 833	,705
	* •	+++++	****	****	• • • • •	****	* * * * *	• • • • • • •	***** ***	♦ ♦		
Merginal Tot	als •	3	6	38	1	1	7	10	+ 66 +	•		

Catagory Marginal Agraement: .634

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Learner Moves
Observer 40 Expert 80
School 801 Grade 2
Week 9 Day 4
WDRSD

		Cat	egory	chos	en ,by	0bs•	rver	40	Mardinal	Neminal	Marginal	Light's
Category chosen by Expert 80	Cat.	1	2	3	•	5	6	7	Blator	Agraement	Agreement	of Kappa
*	•	*****	****	****	****	****	****	****	• • • • • • • • • • • • • • • • • • •		,	
	•	. 8	0	2	0	0	0	0	10	.800	1.000	,760
Engaged - Written		,	•	_	,				•	. 600 me.	.600	,579
	2 (1	3	1	0	Ç	0	0	. 5	• • • • • •	,000	•
Engaged - oral		•				_		_	17	.706	,941	. 599
Engaged - covert	3 4	1	0	15	. 5	5	0	0				
, Eliberation	•	•		_	•	0	0	0	. 3	1.900	.600	1,000
hot engaged - interi	m 🗛 🕈	• 0	0	0	3	U	U		•	•		, , , , 935
Not engaged - waitin	•	• 0	0	1	O	6	0	0	• 7	57	.675	, , , , , , ,
MOS SUGGRAG - PRICE	• •	•						,	• 0			
Not engaged woff tes	k ' 6 -	+ 0	0	0	0′	0	0	Ô	•	•		•
MOS BUMBAGO MOLL CO.		•			_			16	18	1.000	1.000	1.000
None of the above	7	• 0 •	0	0	0	0	0	10	•	•		
e		• • • • • • •	* * * * *	****	++++	• • • • •	++++	****		*		
Merginal To	tels	• • 10	3	16	5	8	0	16	÷ 60	•		
		*		****	****	****	++++	****	• • • • • • • • • • •	♦		•

category Margina; Agreement; .836

Cohenia Kappal .787 595



Table 309

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Learner Moves
Observer (Expert 90
School 801 Grade 2
Week 9 Day 4
DNP

, e ¹⁰		Cat	• 90P)	/ chợs	en by	Obse	rver	40			gram	Light's Extension
Category chosen by Expert 90	Cat.	1	,2	3	4	5	6	7	Mergine; Totals	Nomine: Agreement	Margine! Agrowment	of Kappa
	•	*****	****	*****	++++	*****	++++	****	*******			
Engaged - Written	1 4	12	0	12	0	1	0	0	25	.480	.760	.328
Engaged - oral	2 4	1	¥	3	0	0	0	0	5	.200	.800	.160
Engaged - coverit	3 (5	2	10	0	1	2	1	21	.476	,778	. 558
Not engaged - Inter	m 4 4	• 0	0	0	3	0	0	0	3	1.000	1.000	1.000
Not engaged = waitir	•	1	0	1	0	5	1	0		,625	.727	,568
Not engaged -off tal	•	• 0	1	1	0	4	9	0	15	.609		,533 🛂
None of the above	7	• 0	0	0	0	0	0	7	7	1.000	.675	7.000
	•	, ,,,,,,,,,		** ***			****		******	•		
Marginal T	otals :	19	4	27	3	11	12	8	. 84			ę
		. • • • • • • • •	****	+++++	* * * * *	****	* * * * *	• • • • • •	*******	•		

Cohenia Kappai .451

Table 310

Reilability on Learner Moves
Observer 20 Expert 90
School 801 Grade 2
Week 9 Day 4
DMP

	454	Cat	:egort	y chos	teu pa	/ Qbsf	arver	20	Marginal	Nominel	Marginal	Light's Extension
Category chosen by Expert 90	Cat.	1.	s	3	4	5	6	7	Totals	Agreement		_
	• •	••••	, ***	*****	, +++ +	· ***	· ***	,****		, 1	<i>f</i> ¹	
Engagad - Written	1 +	19	1	3	. 0	0	5	0	. 25	.760	1.000	, 658
Engaged - oral	2 +	0	4	0	0	0	1	C	5	.800	.714	,782
Engaged - covert	/3 +	5	, 1	11	0	1	s	1	21	•. • ,524	,810	.403
Nat engaged - 'Interi	/ . • .	0	0	0	3	0	0	0	3	1.000	.750	1,000
hot engaged - waltin	ng 5 +	1	0	, 1	1	5	0	0	8 +	• .625	.889	.580
Not engaged -off tag	* 6 +	0	1	5	0	3 '	9	0	15	.600	,933	.520
None of the above	7 •	0	0	0	0	0	0	7	• 7 •	1,000	.875	1.000
,	*	******	*****	*****	*****	*****	*****	*****	********	*		pr. 4
Marginal To	* * * * * * * * * * * * * * * * * * *	25	7	17	•	9	14	8	. 84	•	/	<u>\</u>
₹)	•	******	****	*****	*****	*****	*****	*****	, 	•	A A	r

Category Margine! Agraement! .853

Cohen's Kappat .616

Table 311

Reliability on Learner Moves
Observer 40 Expert 80
School 80 Grade 2
Weak 9 Day 4
DMP

	•	Cat	tegory	chos	en by	0b# 	rver	10	Marginal	Nominal	Marginal	Light's Extension of Kappa
Category chosen by Expert 80	Cat.	1	2	3	4	, 5	6	7	Totals	Agreement	Agreement	,
				****	****	++++	****	++++	********			
	•	•	•	2	,	0	2	. 0	13	,615	1.000	. ,538
Engaged - written	1 4	, B	Q			0	0	0	+ +	.750	,333	.705
Engaged - oral	5 4	▶ 0	3	1	10	-	-	·	+ 38	, 474	,632	.240
Engaged - covert	3 4	• •	8	18	G	5	2	1 ,	÷ 6	• • • 500	,833	» 466
Not engaged - Interi	m 4	• 0	0	1	3	2	0	0	• J	• • •429	.700	/,345
Not engaged - waitin	g 5	1	1	0	, o	3	2	0	•	•	.500	. 803
Not engaged -off tes		• 0	0	0	1	0	5	0	+ 6 +	Ø 633		.230
None of the above	7	• 0	0	5	0	0	1	1	•	• ,250 •	.500	,
/		*****	• • • • •	****	****	****	****	****	*********	•		
marginal To	tels	. 13	12	24	5	10	12	5	78	• •		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		• •••••	• • • • • •		****	****	****	****	******	•	ä	

Category Harginal Agreement: .643
Cohenis Kappa: .396

Phase IV - IGE Evaluation Project Descriptive Study & Spring 1978

Reliability on Learner Moves
Observer 10 Expert 90
School 801 Grade 5
Week 9 Day 5
DMP

Category choigh by Expert 90	Cat,	cet	•90ry	chos	en by	9 9	rver 6	140 7	Marginal Totals	Nomine: Agreement	Marginel Agreement	Light's Extension OF Kappa
Dy Expert so					****	****		* * * * * *	+++++++	•		
	* *		_				0	0	+ 19))	,947	671
Engaged - written	1 +	14	0	•	0	1		-		√ • 0.000	/1.000	* 011 ·
Engaged - oral	2 +	0	0	0	0	0	1	0	•	•	955	,526
Engaged - covert	3 +	1	0	14	1	73 0	6	0	+ 55	• ',636 °		
Not engaged - Interi	m 4 +	1	1	0	6	0	0	0	. 8	+ .750	1,000	,726
	•	. 0	0	, O	0	0	0	0	• 0		0.000	****
Not engaged - waltir	•	,	-		•	,	21	0	. 27	• • •778	.900	,667
hot engaged moff ter	1k 6 4	· ,	.0	3	1	0		Ţ	13	•	,846	,825,
None of the above	7 •	0	0	0	0	0	, 2	11	+ 13	•	V = 1.5	
× 90	,	, ,	****	****	****	• • • • •	****	*****	· • • • • • • • • • • • • • • • • • • •	♦		
Marginal T	ntals (18	1	21	8	1	30	11	• 90	‡		
MELAIDE!	•	• •				• • • • •		****	• • • • • • • • • • •	▼	•	

category Margina! Agreement! .807

Cohenis Keppai :656 597

ERIC Full Text Provided by ERIC

Table 313

Reliability on Learner Moves
Observer 20 Expert 90
School 801 Grade 5
Week 9 Day 5
DMP

•		Cet	egory	ches	# #~by	0689	rver	20	Marginal	Nominel	Marginal	Light's Extension
Category chosen by Expert 90	Cat.	71		· 3 ·	•	5	• •	7	Totals	Agreement	Agreement	of Kappa.
DA CYNAL C'AN								-		, , ,		
• .	•	*****	0	, , , , ,	0	0	0	0	+ 19	,947	,633	,921
Engaged - written	1 +	18	<i>,</i> 0	0	\0	0 7	1	0	+ 1	• 0.000	1.000	-,011
Engaged - oral	2· +	,	0	f 8	, 2	0	4	0 .	+ 55	• ,364	,545	, 266
Engaged - covert'	, , , , , , , , , , , , , , , , , , ,	%	1	1	6	0	0	0	+ 8	.750	1,000	,726
Not engaged - Interi	•	,	_				0	0	• 0	*	0.000	
Not engaged - weitin	•	0	0	0	0	1	. 50	0	÷ + 27	• • •741	,963	,635
Not engaged moff tas	k 6 +	0	0	, E	0	0	1	12	÷ 13	+ ,923	,923	,911
None of the above		, , ,	• • • • •	****	****	*	****	**** *	*	*		
Harginal Je	tal#	30	1	, 12	8	1	26	15	• 90 ·	• •		
	,	• • • • • • • •	****	****	++++	****	· + + + +	****	****	•		

Category Marginal Agreement! .724

Cohenis Kappal / 431

Table 314

Phase IV - IGE Evaluation project
Descriptive Study - Spring 1978

Reliability on Loarner Moves
Observer 30 Expert 80
School 801 Grade 5
Heak 9 Day 5
DMP

•	•	Cat	egory	chos	en by	0610	rver	30	Marginai	Nominel	° Merginei	Light's Extension
Category chosen by Expert 60	Cat.	1	s .	3	•	5	6	7	Totals	Agreement	Agraement	of Kappa
,					++++	****	++++	++++	**********	.		
*	•	•••	•	•	0	0	0	0	+ 55	• •909	,786	,868
Engaged were tten	1 +	20		. 5	0	0	0	0	+ 6	+ + ,167	,857	,096
Engaged p oral	\$ +	. 0	1			3	,	0	• • 31	+ + .681	,806	.419
Engaged - covert	3 •	· 7	2	18	, 0		•	0	+ 2	+ + 1.000	.500	1.000
Not engaged - interi	4	• 0 •	0	0	8	0	0	•	+ 17	.706	1.000	,637
Not engaged. • waiting	10 5	1	0	0	1	12	3	0	•	+ (*• B 00	,900	, ,444
Not engaged woff tal	k 6	0	3	1	0	1	5	0	+ 10 +	•	0.000	0.000
None of the above	7	• 0	0	0	1	1	0	0	+ 2 +	<pre>+ 0,000 +</pre>	0.000	
	•	• • • • • • • •	++++1	****	****	++++	+++++	++++	********	•		
Merginel T	otal #	÷ 28	7	25	4	** 17	9	. 0	90	•		
		* ******	****	****	++++	. + + + +	****	****	******	• •		

Category Marginal Agreement: .693

ERIC*

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Learner Moves 7 Observer 40. Expert 80 School 801 'Grade 5 Week 9 Day 5

		Cat	e gory	chos	en by	0bs=	rver 4	0 .	Marginal	Nominal	Marginel'	Light's Extension
Category chosen by Expert 80	Cat.	1	2	, 3	4	5	6	7	Totals.	Agreement	Agreement	of Kappe
	•	++++++	++++	****	+++*	****	+++++	++++	***********	•		- -
·	•		a _	3	• 0	0	1	0	+ 22	.773	,957	,695
Engaged - Written	1 +	17	1	ی بنر	V	V	•	·	•	• • ,333	. 1,000	,286
Engaged - oral	5 +	. 0	2	4	0	0	ند ٥	0	6	• • • • • • • • • • • • • • • • • • •	1,000	
	•	,			2	0	- , ₹	0	31	.742	,638	,562
Engaged - covert	3 •	•	1	23	. =	Ū	• ``	•	+	+ + 1.000	.500	1,000
Not engaged - interi	m 4 4	0	0	0	5	0	0	0	+ 5	• <u>1</u> ,000	,500	
	•	, ,		5	0	10	°0	0	+ 17	+ .588	. 588	.537
Not engaged - waitin	g 5 (1		3	•	• •	•	·	•	+ + ,600	.800	,561
'hot engaged -off tas	x 6	1	1	. 2	0	0	6	0	+ 10	• •	,,,,	,
	•	•		0	0	0	0	2	. 2	+ 1.000	1.000	1,000
None of the above	7	• 0	0	U	·	٧	·	_	4	•	ţ	
•	,	* * * * * * * *,* [;]	++++	++++	****	+++ +	*****	++++	· • • • • • • • • • • • • • • • • • • •	•		
marginal To	tais:	+ 23	6	37	4	10	8	2	90	+		C.
		* ******	****	++++	****	****	*****	****	*******	•	★ 1	

category Marginal Agreement1" ,812

Cohenis Kappal .590

phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Learner Moves
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 5
WDRSD

Category chosen by Expert 90	Cat.	Cat	e gory	3 44		0b#0	rver	7	Margine! Yotals	Nominal Agreement	Merginei Agreement	Light's Extension of Keppe
Engaged - Written	1 •	5	2	1	0	0	1	0	+ 9	• 5 56	.618	,467
Engaged - Oral	2 +	. 0	1	2	0	. 0	0	0		, 333	.375	,241
Engaged - covert	3 +	2	4	18	1	0	0	0	25	.720	1,000	,549
Not engaged - Inter	m 4 +	1	0	į 2	0	1	Ç	5	6	0.000	.167	015
Not engaged - waltin	· •	2	0	1	0	1	. 1	0	5	.200	.600	,162
Not engaged -off tas	•	1	1	1	0	1	6	0	10-	•600	.800	,545
None of the above	7 +	0	0	0	0	0	0	- 8	8	1.000	.000	1.000
Marginal To	te s +	11	8	* + + * + † 25	1	3	8	10	66			

Category Marginel Agreement! .651

Cohenia Keppel .480 . 691

Table 317

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Learner Moves
Observer 20 Expert 90
School 801 Grade 2
Week 9 Day 5
WDRSD

		Cat	egory	chos	en by	0610	rver	20	Marginal	Nominal	Marginal	Light's Extension of Kappa
Category chosen by Expert 90	Cat.	1	5	3	•	5	6	7	Totals	Agraement	Agraement	OV KEPPE
	++	+++++	++++	****	****	++++	****	****	•	•		a = 0
	•		0	0	0	1	0	0	. 9	,889	,643	,859
Engaged - Written	1 +	8			-	0	0	0	÷ 3	.667	.500	,633
Engaged - oral	2 +	0	2	1	0	_			+ + 25	• ,640	,760	,494
Engaged - covert	3 +	•	4	16	1	0	0	0	•	♦ • "500	,833	,459
Not engaged - Inter	T + +	1	0	0	3	2	0	0	+ 6	• ,500		
	•		•	,	1	1	1	0	. 5	+ .200	.714	,105
Not engaged - walti	ng 5 +	1	G	٨	•	,•	•		•	• • •600	.700	,553
Hot engaged moff ta	sk 6 +	0	0	1	0	3	6	0	+ 10 +	•		
•	7 +	0	0	0	0	0	0	8	. 8	+ 1.000	1.000	1.000
None of the above	•	·						****	• • • • • • • • • • •	•		
	* *	*****	++++	****	****	****	****		•	•		
Marginal T	otals *	14	6	19	5	7	7	8	+ 66	•		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•			****	++++	****	* * + + *	++++	*****	••		
	•		* * * * *									

Category Marginal Agreement: .736 Cohen:s Kappa: .590

Table 318

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Learner Moves
Observer 30 Expert 80
School 801 Grade 2
Week 9 Day 5
WDRSD

		Cat	egori	y chos	en' by	0619	rver	30	Marginal	Nominal	Marginał	Light's Extension
Category chosen by Expert 80	cat.	1	5	3	4 ^	5	6	7	Totals	Agreement	Agreement	of Kepps
	•	+++++	++++	++++	****	****	++++	*****	******			
Engaged - written	1 +	13	0	0	0	1	0	0	1.4	.929	,737	. 895
Engaged - Oral	5 + +	0	ı	0	o	1	0	0	2	.500	.667	.474
Engaged - covert	 + 3	5	1	10	0	6	1	0	23	.435	,522	, 293
Not engaged - Interia	+ + 4 m	0	0	0	0	0	0	0	. 0	*****	0.000	
Not engaged - waiting	•	0	0	0	0	7	1	0		.675	,444	.021
Not engaged -off test	•	1	0	2	0	3	3	0	• 9	,333	,556	.273
hone of the above	7 +	0	1	0	1	0	0	2	·	.500	,500	,483
	•	. • • • • • • •	• • • • •	****	++++	****			**** *** ****	,		
Marginai To	tel= +	19	3	12	1	18	5	2	. 60			*
	•								44444444	•		

Category Marginal Agreement: +489

Cohenis Kappal .496

Table 319

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Learner Moves
Observer 40 Expert 80
School 801 Grade 2
Week 9 Day 5
WDRSD

	MGOFY	င်္ကာဝ\$	en by	0640	rver	40	Manginal	Nominal	Marginal	Light's Extension
1	s.	3	4	5	6	7	Totals	Agresment	Agreement	of Keppa
*****	****	****	****	****	****	****	• • • • • • • • • • •			
• • 13	0	1	0	0	0	0	14	.929	.875	.903
• • 1	0	0	0	1	0	0	. 2	0.000	1.000	-,034
♦ 0	2	21	0	0	0	0	+ 23	.913	.885	,847
♦ 0	0	0	0	0	0	0	• 0) (a) The 60' (a) Th	0.000	Animala - The second second
+ 0	0	1	0	6	1	0 .		•750	.889	.706
+ 2	0	3	1	2	1	0	• 9	,111	.222	,080
• • 0	0	0	Š	. • ,	0	2	• •	• 500	.500	,403
*****	• • • • •	· • • • • •	****	****	****	****	*****	•		
16	2	26	3	9	8	5	60			
	1	1 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 2 3 1 3 0 1 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 1 0 0 1 0 1 0 0 1 0 1 0 0 1 0 1 0 0 1 0 1 0 0 1 0 1 0 0 1 0 1 0 0	1 2 3 4 1 3 0 1 0 1 0 0 0 0 0 2 21 0 0 0 0 1 0 1 0 0 0 2 1 0 0 0 2 1 0 0 0 2 1 0 0 0 2 1 0 0 0 0 2 1 0 0 0 0 2 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0	1 2 3 4 5 1 3 0 1 0 0 1 0 0 0 1 0 2 21 0 0 0 0 0 0 0 0 0 0 1 0 6 2 0 3 1 2 0 0 0 2 0	1 2 3 4 5 6 13 0 1 0 0 0 1 0 0 0 1 0 0 2 21 0 0 0 0 0 0 0 0 0 0 0 1 0 6 1 2 0 3 1 2 1 0 0 0 2 0 0	1 2 3 4 5 6 7 13 0 1 0 0 0 0 1 0 0 0 1 0 0 0 2 21 0 0 0 0 0 0 0 0 0 0 0 0 1 0 6 1 0 2 0 3 1 2 1 0 0 0 0 2 0 0 2 16 2 26 3 9 2 2	Marginal Totals 1 2 3 4 5 6 7 Totals 13 0 1 0 0 0 0 14 1 0 0 0 1 0 0 2 0 2 21 0 0 0 0 23 0 0 0 1 0 6 1 0 8 2 0 3 1 2 1 0 9 0 0 0 2 0 0 2 4	1 2 3 4 5 6 7 Totals Agreement 13 0 1 0 0 0 0 14 929 10 0 0 1 0 0 2 0 000 0 2 21 0 0 0 0 2 0 00 0 0 1 0 6 1 0 8 750 2 0 3 1 2 1 0 9 111 0 0 0 2 0 0 2 4 800	Marginal Nominal Marginal Agreement Agreement 13 0 1 0 0 0 0 14 929 875 1 0 0 0 1 0 0 2 0.000 1.000 0 2 21 0 0 0 0 2 913 885 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Category Merginal Adresment: .624
Cohenis Kappai .619

Table 320

Reliability on Learner Moves
Observer 30 Expert 80
School 801 Grade 2
Week 9 Day 5
DMP

•		Cat	agory	chos	en by	0b s (erver	30	Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expert 80	Cat.	1	2	3	4	5	6	7	Totals	Agreement	Agreement	of Kappa
	•	*****	****	****	****	+++	*****	*****				
Engaged - Written	1	13	0	5	0	1	Ō	0	16	.813	,941	,765
Engaged - oral	5 (0	0	5	0	0	0	0	. a	0.000	1.000	024
Engaged - covert	3	• •	5	25	0	2	1	0	34	,735	.672	.506
Not engaged - Interin	n 🔥	• 0	0	3	4	1	1	0	9	,444	,444	,417
hot engaged - walting	5	• • 0	0	3	0	1	0	0		.250	,667	, 1 92
Not engaged -off test	, 6 ·	• • 0	0	•	0	1	11	0	16	,688	.013	,630
None of the above	7	• • 0	0	0	0	0	0	3 '	• 3	1.000	1.000	1,000
	,	♦ • • • • • • • • • •						• • • • •	******	•		
Marginal To	tais	+ + 17	2	39	4	6	13	3	+ + 8+ +			
		*****	****	****	****	++++	****	*****	******	•		

Category Marginal Agreement: .820

Table 321

Phase IV = IGE Evaluation Project
Descriptive Study = Spring 1978

Reliability on Learner Moves
Observer 40 Expert 80
School 801 Grade 2
Week 9 Day 5
DMP

		Cat		/ chos	en by	055	erver	40	Marginal	Nominal	Marginal	Light's Extension
Gategory chosen by Expert 80	Cat.	1	5	3	4	5	6	7	Totals	Agreement	Agreement	of Kappa
,		*****	****	****	****	***	****	****	*****	•		
Engaged - written	1	+ + 14	0	1	0	1	0	0	+ 16	.875	.696	,826/
Engaged - oral	2	+	0	2	0	0	0	0	+ 2	0.000	.500	-,012
Engaged - covert	3	+ + 9	0	21	0	1	3	0	+ 34	.618	,853	.416
Not engaged - interi		+ 0	1	1	7	0	0	0	. 9	. 778	,778	.758
Not engaged - waltin		+ 0	0	3	9	0	1	0	• 4	0.000	.750	037
Not engaged woff tas		•	0	ı	0	i 1	14	0	+ 16		, 889	,841
None of the above	7	• 0	0	0	. 0	0	0	3	3	7.000	1.000	1.000
		* ******	****	****	• • • • •	* * + * *	****	*****	******	•		
Marginal To	tals	• 23	1	29	7	3	16	3	• 84	•		j. 14
		****	* * * * *	****	• • • • •	*** *	****	*****	******	•	•	

Category Marginal Agreement: .781

Cohenia Kappai .606

Table 322

Phase IV * 10E Evaluation Project
Descriptive Study - Spring 1978

Reliability on Learner Moves
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 5
DMP

		Cat	e gory	chos	en by	Obse	rver	10	Marginet	Nominei	Marginel	Light's Extension
Category chosen by Expert 90	Çat. W	1	5	3	4	5	6	7	Totels	Agreement	Agreement	of Kappa
	++4	• • • • •	++++	++++	****	*****	****	****	*****			
Elegaged - written	1 +	9	0	5	0	1	1 '	0	13	.692	.769	.651
Engaged - Orel	5 + +	0	1	0	0	0	0	1	· · 2	.500	.667	, ,481
Engaged - covert	3 +	0	1	17	3	0	2	1	. 24	.706	.600	,546
Not engaged - Interi	m 4 +	1	0	5	2	0	0	1	. 6	,333	.057	.273
hot engaged - waitir	•	0	1	* 8	1	11	4 .	0	÷ 25	.440	.520	,337
Not engaged -off tal	•	. 0	0	1	0	1	5	0	* 7	,714	.500	.657
None of the above	7 +	σ	0	0	1	0	2	4	7	• • • • • • • • • • • • • • • • • • •	1.000	, .53 2
	• •		•	****	****		• • • • • •	++++	******	• Jan •		
Merginel To	tels +	10	3	30	7	13	14	7	÷ 84	♦		
*	*				• • • • •	• • • • •	* * * * *	++++	• • • • • • • • • • • •	· ,		

Cohenis Kappai .483

Table 323

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Learner Moves
Observer 20 Expert 90
School 801 Grade 2
Heak 9 Day 5
DMP

		Çet	egory	chos	en by	0bs6	rver	20	. Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expart 90	Cat.	1	2	3	4	5	6	7	Totals	Agreement	Agreement	o# Kappa
	••	****	+++++	****	****	****	****	****	******	•		•
Engaged - written	+ 1 +	6	0	4	0	5	0	1	13	.462	.538	,413
Engaged - oral	5 + +	0	1	0	0	0	0	1,	. 2	.500	,333	,462
Engaged - covert	• •3 •	1	4	15	1	0	s	1	÷ 24	,625	889	,447
Not engaged - Interi	m 4 +	0	0	1	4	0	0	1	÷ 6	,667	,833	,646
hot engaged - waltin	•	0	1	6	0	16	s	0	+ 25	,640	,760	,535
Not engaged -off tas	•	0	0	1	0	1	5	0	• 7	.714	,636	.671
None of the above	7 +	0	0	0	0	0	2	.5	* 7	.714	,778	,680
	•		****	*****	****	****	****	*****	******	•		
Marginal To	otala +	7	6	27	5	19	11	9	+ + 84	• •		
	•	****	****	****	• + + • •	++++	****	* * * * * *		•		<i>y</i>

Category Margine! Agreement: #481
Cohents Kappe: #525

Date: 06-25-79 Program: RELP95 Data File: RELD1

Reliability on Interactions
Observer 10 Expert 90
School 801 Grade 5
Week 9 Day 4
DMP

				Cat	agory	chos	en by	0b#	erver	10			Marginai	Nominal	Marginal	Light's Extension
Catagory chosen by Expert 90	cat.	1	2	3	•	5	6	7	8	9	10	11	Totals	Agreement	Agreement	of Kappa
	•	**** *		****	++++	****	****	****	*****	****	****	*****	******		•	
Target to Teacher	1 +	1	0	0	0	0	0	0	0	0	0	0		1.000	1.000	1,000
Target to Other Adult	. 2 ÷	0	0	0	0	0	0	0	o	0	0	0	• 0 •			
Target to Student	· 3 •	0	0	2	0	0	0	0	(g) ⁿ	0	0	5	7	,286	.571	. 252
Target to Tchr & Grp	4 +	• 0	0	0	0	0	0	0	0	0	. 0	0	• 0	(R = 40 T =		
Teacher to Target	5 +	. 0	0	0	0	0	0	0	0	0	0	0	• 0 •		*****	***
Other Adult to Targe	• • 6 •	0	0	0	0	0	0	0	0	0	0	0		***		
Student to Target	7 +	0	0	0	0	0	0	1	0	0	0	2	3	,333	. 333	, 326
Teacher to Group	8 +	. 0	0	0	0	0	0	0	0	C	0	0	• 0	·	0.000	40 to 40 to 40
Other Adult to Group	9 +	0	0	0	0	0	0	0	O	0	. 0	0	• 0	*****	(p p q = 0	
Student to Group	10 +	0	0	0	0	0	0	0	0	0	0	0	• 0		40 40 40 40 m	***
None of the above	11 •	0	0	5	0	0	0	0	1	0	0	76	79	,962	,952	.512
	•)) + 	****	• • • • •	****	****	++++	• • • •	++++	****	••••	*****	•••••	•		
Marginal To	• • • • •	1	0	4	0	0	0	1	1	0	0	83	+ 90			
	•) * * * * * * *	****	• • • • •		****	****	* * * * *	****	· • • • •	••••	++++	*******	•		

Category Marginal Agreementi .571

Cohen's Kappel .404

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Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Interactions
Observer 20 Expert 90
School 801 Grade 5
Week 9 Day 4
DMP

Detai 06-25-79 Programi RELP9S Data File: RELD1

7

				Cate	Bgory	chose	en by	Obser	ver i	20			Marginel	Nominel	Merginal	Light's Extension
Category chosen by Expert 90	Cat.	. 1	S	3	4	5	6	7	8	9	10	11	Total s	Agreement:	Agreement	of Keppe'
					* 	++++	· • • • •	****	***	****	****	****	• • • • • • • • • •	1		
	•	·	. 0	6	0	0	0	0	0	'0	0	0		1,000	.500	1,000
Target to Teacher	1 • •		. •	•	-				•	•	0	0				
Target to Other Adult	. 2 +	0	0	0	0	0	0	0	0	0	0	•	7	. 429	.857	,388
Target to Student	3 4	0	0	3	0	0	, O	0	0	0	0	0	• 0) ,	••••	***
Target to Tchr & Grp	4	0	0	0	0	0	0	0	0	0	0	0	• 0) 	- # - # T	****
Teacher to Target	5 4	• 0	0	0	0	0	0	0	0	0	0	6	• 0	• ·we===		****
Other Adult to Terge	t 6	• 0 •	0	0	0	0	0	0	0	0	0	1	• 3	• 0.000	0 • 0,0 0	0.000
Student to Target	7	• 0 •:	0	a	0	0	0	0	. 0	0	0	0	• 0	• • 'p=+#=	o • 000	-++==
Teacher to Group	8	→ 0	0	0	0	0	0	0	0	0	0	0	+ 0	• · · · · · · · · · · · · · · · · · · ·	· p w m + +	****
Other Adult to Group	9	+ 0 +	0	0	0	0	0	0	0	0	0	0	• 0	• • • • • • • • • • • • • • • • • • • •	w # * * * *	****
Student to Group	10	• 0 •	0	0	0	0	0	0		. 0	0	76	• 79	• • ,962	,975	.620
Hone of the above	11	• 1	0	1	0	0	0	0	1				•	.		
waantaat 9 6		*****	• • • • • • 2 0	• • • • • • • 6	••••	••••	• • • • •	0	1	0	0	81	• 90	• •		
marginal To	74818	•	- ••••	*****	****	+++ +	****	****		++++	***	• • • • •	******	•		

Category Merginal Agreement: .466

Cohen's Keppel .487



Table 326

Reliability on Interactions
Observer 40 Expert 80
School 801 Grade 5
Week 9 Day 4
OMP

petel 06-25-79 Programi RELP95 Dete Filel RELD1

				Cat	egory	chose	n by	06:0	rver l	j 0			Marginal	Nominal	Hargingi	Lightis Extension
Category chosen by Expert 80	Cat.	1	5	3	4	5	6	7	8	9	10	11 ,		Agreement	Agreemânt	of Kebbe
,	•	****	****	****	****	• • • • •	****	****	*****	• • • • • •	****	• • • • • • •	•		·	
Target to Teacher	1. 4	. 0	0	0	0	0	0	0	0	0	0	0		保存者公司	0.000	**********
Target to Other Adult	2 4	0	0	0	0	0	0	0	0	0	0	0	0 •		· ************************************	************
Target to Student	3 (0	0	2	0	0 👟	. 0	0	0	0	9	,	2	1.000	.500	1.000
Target to Tchr & Grp	6	. 0	0	0	0	Q	0	0	0	0	0	0	0	, , , , , , , , , , , , , , , , , , , 	****	
	5	•	0	0	0	0	0	0	2	0	0	1 1	3	0.000	,333	011
Teacher to Target	•	•	, ·	0	0	0	0	0	0	0	0	0	• 0			****
Other Adult to Target	_	0	0	0	0	0	0	8	0	0	0	0	. 2	1.000	.667	1.000
Student to Target	,	•	0	0	0.	0	0	1	8	· 0	°.	3	• 13	,615	,813	.,532
Teacher to Group	8	•	_	0	0	0	0	0	۷.,	0	0	0	+ 0) .mp==00		****
Other Adult to Group	9	•	0	•	•	0	0	0		0	0	<u> </u>	+ 0) 	****	
Student, to Group	10	•	0	0	-	•	-	0	6	•		61	+ 70	,671	,929	,537
None of the above	11	♦ 0 ♦	0	2	0	•	0						4	•		
		******** *	****	****	****	*****	****			-		65	+ 9 0	•		
Herginal To	te =	+ 1	0	•	0	1	0	3	16	0	0	• • • • • •	*	♦ •		
		*****	****	****	****	* * * * * *	***	++++	*****	****	* * * * *	· • • • • • • • • • • • • • • • • • • •	+ + + + + + + + + + + + + + + + + + + 	▼		

613

Cetegory Marginal Agraement: .540

Cohents Keppai ,540

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Detel 06-25-79 Program: RELP95 Date File: RELD1

Reliability on Interactions
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 4
WDRSD

Category chosen	Cat,	1	2	Cat	agory	chos	en by	0b86	rver	10	10	11	Merginai Yotals	Nominei Agreement	marginai Agreement	Light's Extension of Kappa
by Expert 90	N				•	-		,								
	•	• • • • • •	*****	****	****	++++	****	****	* * * * *	****	****	· • • • • •	· · · · · · · · · · · · · · · · · · ·			
Target to Teacher	1	• 0	G	0	0	0	C	0	1	0	0	0	• 1 •	0.000	,333	w • 0 4 B
Target to Other Adul	t Z	• 0	0	0	0	0	O	0	0	0	0	0	• 0 •	****		
Target to Student	3	• • 0	0	1	0	0	0	1	0	0	0	0		.500	.500	.492
Target to Tchr & Grp	•	• 0	0	0	0	0	0	0	0	0	0	1	1	0.000	0.000	0.000
Teacher to Terget	5	• 0	0	0	0	0	c	0	0	0	0	0	• 0	**************************************	****	gay agu ma agu yan
Other Adult to Targe	t 6	• 0	0	0	G	0	Ö	0	0	0	0	V	• 0		***	****
Student to Target	7	+ 0	0	0	0	Ö	0	0	1	0	0	0		0.000	1.000	015
Teacher to Group	8	+ %	0		0	0	0	0	53	0	0	3	. 28	.821	, 964	,681
Other Adult to Group	9	+ 0	0	0	0	0	0	0	0	0	0	0		~~~**	\$0 mm 40 81 48	****
Student to Group	10	• • 0	0	O	0	0	o	0	0	0	O	1	1	0.000	, 333	 048
hone of the above	11	•	0	0	0	o	0	ø	4	0	3	24	• 32	.750	,904	, 554
		• •••••	****	+ • • • •	* * * * *	****	****	****	• • • • •	• • • • •	****	****	******	•		
Marginal To	tals	↔ 3	0	ì	O	0	0	1	29	o	3	29	• 66 •			
		*****	****	*****	****	****	****	• • • • •	• • • • •	****	****	*****	*******	•		

Category Marginal Agreement: #877

Cohen's Keppa; .544



Table 328

Reliability on Interactions
Observer 20 Expert 90
School 801 Grade 2
Week 9 Day 4
WDRSD

Date: 06-25-79
Program: RELP95
Data File: RELD:

. ♦

				Cat	egory	chos	en-by	0686	erver	20		e ¹	Marginal	Nominal	Harginal	Lightie Extension
Category chosen by Expart 90	Cat.	1	2	3	4	5	b	7	6	9	10	11	Totals	Agreement	Agreement	of Kappa
	•	*****	• • • • • • ·	*****	****	****	****	****	****	****	· • • • • •		******			
Target to Teacher	1	0	0	0	0	0	0	0	0	0	. 1	0	1	0.000	1.000	*• 015
Target to Other Adult	2	0	0	0	. 0	0	0	0	0	0	0	0	• 0	· W =	****	****
Target to Student	3	0	q	2	0	0	0	0	0	0	0	0	2	1.000	.400	1,000
Target to Tchr & Grp	4.	0	0	0	8	0	0	0	1	0	0	0	1	0,000	0.000	0.000
Teacher to Target	5 (0	0	0	0	0	0	0	0	0	0	0				***
Other Adult to Targe	t 6	0	0	0	0	0	0	0	0	0	0	0	• 0 •			***
Student to Target	7	• 0	0	0	0	0	0	0	1	0	0	0		0.000	0.000	0.000
Teacher to Group	8	• • 1	0	1	0	0	0	0	15	0	0	11	+ 25	,536	.714	, 334
Other Adult to Group	9	• 0	0	0	0	0	0	0	0	0	0	0	0		***	***
Student to Group	10	• 0	0	0	0	0	0	0	1	0	0	0	1	0.000	.250	e • 065
Nune of the above	11	• 0	0	5	0	0	0	0	5	0	3	25	32	,781	.007	.819
	•	· • • • • • • •	****	*****	****	• • • • •	****	****	*****	• • • • •	• • • • •	*****	******	•		
Marginal To	tels	1	0	5	0	0	0	0	50	0	4	36	66	,		
	`	- • • • • • • •	****	****	****	*****	*****	****	****	• • • •	++++	****	******			

618

617

Category Marginal Agresment: .465

Cohen's Kappal .397



Table 329

Date: 06-25-79 Program: RELP9S Date file: RELD:

Reliability on Interactions
Observer 40 Expert 80
School 801 Grade 2
Week 9 Day 4
WDRSD

Target to Tohr & Grp Teacher to Target	5	•	0	0	0	0	0	0	0	0	0	0	,o	3	,667	₄ 667	.655
Other Adult to Terme		•	0	0	0	0	0	0	0	0	Q	0	0	•	• ••••	# # # # # # # # # # # # # # # # # # #	****
Student to Target	7	+ +	0	0	1	0	0	0	ð	0	0	0	0	1	875	,333 ,571	•,053 ,837
Teacher to Group Other Adult to Group	8	•	0	0	0	0	0	0	0	9	0	0	0		· · · · · · · · · · · · · · · · · · ·	~~ @	● ₩≃♥♥
Student to Group	10	•	0	0	0	0	0	0	0	0	0	0	0	• 0) 	*****	.515
None of the above	, 11	•	0	Ü	0	0	0	0	3	5	0	6	35	43 4	,814	, 840	• 0 8 0
Marginal To	2010	•	***** 3	0	1	0	s *****	0	3	14	0	0	37	60			
		***	++++	****	* * * * * *	****	****	****	7 + + + +		* * * * *	- 					

category Margina! Agreement! .697

Cohenia Kappa! .584



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Table 330

Date: 06-25-79 Program: RELP95 Data File: RELD1

Reliability on Interactions
Observer | Expert 90
School 801 Grade 2
Week 9 Day 4
DMP

				Cate	gory	cho#6	on by	Ораел	- / (8 /*	40			Marginal	Nomine!	Margina; Agreement	Lightis Extension of Kepps
Gatagory chosen by Expert 90	Cat.	1	5	3	4	5	5	7	8	9	10	11	Totals	Agreement	AALERMAN	
		*****	++++		****	** +**	++++	* * * * * *	+ 4 4 4 4	. 4 4 4 4	* * * * * * * * * * * * * * * * * * *	*****				
			• • • • • •						_	٨	۸	100	. 0	ω - ω - ω - ω - ω	0,000	
Target to Teacher	1	0	0	0	0	0	0	0	0	0	o	ø	. 0	· · · · · · · · · · · · · · · · · · ·	19 mg (14) 170 19	9 4 4 7 7
Target to Other Adul	t 2	0	0	0	0	0	0	0	,	v,	9	z.	+ 5	* 500	.600	.170
Target to Student	3	• 0	0	1	0	0	0	I	0	0	ą	0	• 0	• • • • • •		***
Target to Tchr & Gra	. 4	• 0	0	0	0	0	0	0	0	0	0	0	+ 1	. 0,000	0.000	0.000
Teacher to Target	5	1	0	0	0	9	0	0	0	a	0	0	• 0	• • •••••	(b) (c) 44 (4) (b)	###
Other Adult to Targ		• 0	0	0	0	0	0	•	0	-	0	a	• 3	• • ,333	1,000	.309
Student to Target	7	• 0	້ 0	0	0	0	0	ä	ď	Ü	0	0	• 2	• 1.000	1.000	1.000
Tuecher to Group	8	0	0	0	0	0	0	Ġ.	\$	0 ∡i	M	0	• 0	+ + =====	****	.
Other Adult to Grou	p 9	0	0	0	Ç	0	0	0	0	,, . 6	0	6	• 0	♦	G CO 40 40 44	+++=
student to group	10	• 0	0	0	n	0	0	٠ -	0	ç o	0	70	• 73	• • • • • • • • • • • • • • • • • • •	.973	,616
Hone of the above	11	0	0	2	e	0	0	1	0	0			• • • • • • • • •	♦		
		*****	****	****	+++++	++++	++++	++++	* * * • •	» ~ ~ ~ *	~ * * * *	*****	•	•		
Merginei 1	otal#	• · 1	0	3	0	Ü	0	3	5	0	o	75	• 84	•		
,,=, =,,,=,		*****	****	****	++++	****	++++	****	** **	• • • • •	****	*****	********	,		622

621

Category Marginal Agreements .596

Qohen's Kappet .489



Table 331

Detel 06-25-79 Program: RELP95 Data File: RELD1

Reliability on Interactions
Observer 20 Expert 90
School 861 Grade 2
Week 9 Day 4
DMP

				Cat	agory	chos	en by	0bse	rver	3 0			Marginei	Nominal	Merginal	Lightia Extension
	Cat.	•	.5	3	4	5	6	7	8	9	10	11	Totals	Agreement	Agreement	of Kappe
by Expert 90	•	*	E	·							****	• > • • • • • •				
	4	* * * * * * * [*] *	*****	· • • • •	****	**;**	****	****	****				• 0		0.000	
Yarget to Teacher	1	0	0	Ģ	0	ð	0	0	0	0	0	0		•		## = =
Target to Other Adult	2	• 0	0	0	0	0	0	0	0	0	0	0	• 0	,		
	_ •	• 0	. 0	4	0	0	0	0	0	0	0	` 1	. 5	.800	, 833	, 785
Target to Student	_ •	•			•	0	0	0	0	ô	0	0	• 0	, (1) =p 40 = 10	6-4-2-4 = 4-4	****
Terget to Tchr & Grp	•	• 0 •	0	0	0	_	_	·	·	-	0	0	• 1	0.000	0.000	0.000
Teacher to Target	5	• 1	0	0	0	0	0	0	0	0	_	-	•			
Other Adult to Targe	t 6	• 0	0	0	0	0	0	0	0	0	0	0	+ 0 •	•		
Student to Target	7	♦ ♦ 0	0	0	0	0	0	0	0	0	0	3	• 3	• 0.000	0.000	0.000
	•	+	. 0	0	0	0	0	0	1	0	0	1	÷ 5	,500	.500	.494
Teacher to Group	8	•	_	_	•		_	•	0	0	0	0	+ 0	• •		***
Other Adult to group	9	+ 0) 0	0	0	0	0	0	_	-	_	_	• 0	• • ••===		
Student to Group	10	• 0	0	0	0	0	0	0	0	0	0	0	•	•	,961	.712
None of the above	11	• 0	0	2	0	0	0	0	0	0	0	71	+ 73 +	• ,973 •	1741	*****
		*	*****	****	****	+ + + + + +	****	* * * * *	• • • • •	****	****	· • • • • •	*******	+		
_,	***	•		6	0	0	o	0	1	0	Q	76	6 84	♦		
margina) To	181	+	. 0	-	-		_		•				* • • • • • • • • • • • •	*		
		+++++	• • • • • •	****	****	****	****	* * * * *		****						

Category Marginal Agreementi .382

Cohen's Kappal .545

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reilability on Interactions
Observer (4) Expert 80
School 801 Grede 2
Week 9 Day 4

Date: 06-25-79 Program: RELP95 Date File: RELD1

,				Cate	gory	chose	א או	0686	ver	10			Marginal	Nominal	Marginal	Lightie Extension
Category chosen - Category Chosen - Category Chosen - Category Chosen - Category Category - Categor	t • •	1	2	3	4	5	6	7	8	9	10	11	Totals	Agraement	Agreement	of Kappa
	***		****	****	****	****	****	****	• • • • •	****	****	****				
Target to Teacher		1	0	0	0	0	0	0	1	0	0	0	2	,500	.667	.480
	2 +	0	0	0	0	0	0	0	0	0	0	0	• 0		*****	
	3 +	0	0	2	0	c	0	0	C	0	0	0	. 2 +	1.000	.185	1.000
10.001	•	0	0	0	0	0	0	0	0	0	0	0	• 0 •			
in age to rem a con	• •	-	•	_	•	•	0	0	1	c	0	0	. 2 .	.500	.500	.494
Teacher to Target	5 + +	0	0	ø	0	•	-		٠	. 0	0	0	• •			
Other Adult to Target	6 +	0	0	0	0	0	0	0	0	·	-	_	. 2	0.000	.500	-,013
Student to Target	7 +	0	0	1	0	0	0	0	0	0	0	1	•	,333	.750	,212
Teacher to Group	8 +	2	0	0	0	0	0	0	3	0	0	4	• 9	•		
Other Adult to Group	9	0	0	0	0	0	0	0	0	0	0	0	•) ##########	**************************************	
Student to Group 1	0 +	0	0	0	0	0	0	0	0	0	0	0	• 0	• • • • • • • • • • • • • • • • • • •	***	P40
None of the above 1	1 +	0	0	8	0	0	0	1	7	0	0	45	+ 61	738	.820	, 269
	*	*****		****	* + * * *	• • • • •	****	****	****	• • • • •	• • • • •	*****	******			
Marginal Total		3	0	11	0	1	0	1	12	0	0	50	. 78			
	•	*****	*** *	****	* * * * *	• • • • •	****	****	***	••••	****		*******	•		

625

Cetegory Marginal Agreement; .570

Cohen's Keppel .299



Phase IV - IGE Evaluation project
Descriptive Study Spring 1978

Reliability on Interactions
Observer 10 Expert 90
School 801 Grade 5
Week 9 Day 5
DMP

Date: 06-25-79
Program: RELP9S
Date File: RELD:

			1	Cat	egory	-chos	en by	0686	rver	10	*		Marginal	Nom i ne i	Marginal	Lightis Extension
Category chosen by Expert 90	Cat.	1	S	3	•	5	6 .	7	8	9	10	11	Totels	Agreement	Agreement	of Keppe '
	•	*****	****	****	****	****	++++	****	****	****	* * * * *	*****		` ` `		
	•	• • • •						_	•	0	. 0	0	• 0	*****	0.000	
Target to Teacher	1 +	0	0	0	0	0	0	0	0	0	0	0	• 0	*****	印象会员	****
Target to Other Adult	5 +	9	0	0	0	0	0	0	0	v	•		•	•		0.000
IBrudt to other heart	•				_	_	^	0	0 ·	0	0	1	• 1	• 0.000	0.000	0,000
Target to Student	3 +	. 0	. 0	0	0	0	0	0	0	0		0	+ 0	• • •••••	••••	
Target to Tchr & Grp	4 +	0	0	0	0	0	0	_	0	0	0	0	+ 0	• • • • • • • • • • • • • • • • • • •	****	w p p q m
Teacher to Target	5 +	C	0	0	0	0	0	0,	0	0	0	0	+	• • ***********************************	****	•••
Other Adult to Target	. 6	• 0	0	0	0	0	0	0		0	0	2	• . 2	• •	0.000	0.000
atudent to Target	7	0	0	. 0	0	0	0	0	0	•		0	• 0	♦ ♦ :####		
Teacher to Group	8	• 0	0	0	0	0	0	0	0	0	0	•	•	•		
lauches to dioch	•	•			_	_		0	0	9	0	0	• 0	+ ·=====		40000
Other Adult to Group	9	• 0 •	0	0	0	0	0	0	0	0	0	1	* * 1	• 0.000	0.000	0.000
Student to Group	10	• 0	0	0	0	0	0				0	85	• 56	. 988	,966	,046
None of the above	11	1	0	0	0	0	0	. 0	0	0		****	*	•		
		*****	*****	*****	****	****	****	****	****	****	****	****	•	•		
Marginal To	tels	• • 1	0	0	0	0	0	0	0	0	0	89	+ 90 +	•		
		* *****	****	****	****	****	****	*****	++++	***	****	*****	*******	••		

Category Merginal Agreements : :193

Cohenis Kappal ...009

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Phase IV - IOE Evaluation Project Descriptive Study - Spring 1978 Date: 06-25-79 Program: RELP9S Date File: RELD1

Reitability on Interactions
Observer 20 Expert 90
School 801 Grade 5
Week 9 Day 5
DMP

Category chosen by Expart 90	Cat.	1	3	3	agory	5	6	7	8	Ģ	10	11	Marginal Totals	Nomina! Agraement	Margina; Agreement	Light's Extension of Kappa
			* * * * * *	++++	* * * * *	* * * * *	****	* * * * *	****	****	* + + + •	• • • • • •	* * * * * * * * * * * *			
Target to Teacher	1	• 0	e	ð	0	0	0	0	0	0	0	0	. 0	900 day ggs 35° 400	0.000	⊕ # = 4
Target to Other Adul	t 2	• 0	0	o	0	0	ø	0	0	0	0	0	0 0	40 to so 60 10		(n) (m) (m) (m)
Terget to Student	3	• • 0	0	Ç	ŋ	Ō.	o	0	0	0	0	1		0.000	0.000	0.000
Target to Tchr & Grp	•	• • 0	0	0	ō	0	Ç	0	0	0	0	ø	• 0	新 新 物 加	100 OK 179 NO 100	****
Teacher to Target	5	• • 0	Q	0	ņ	0	O	0	0	c	ø	O	4 D +	(20) (20) (20) (20) (20)	\$87 446 RQ 18. 489	***
Other Adult to Terge	t 6	• 0	9	o	C	C	0	0	0	C	0	0	• 0 •	Man District Ann 17)	map same same (4)+	for one fits the and
Student to Target	7	• 0	0	0	0	0	n	ì	0	0	0	1	. 2 .	.500	.500	, 494
Teacher to Group	8	• 0	O	ņ	0	O	0	C	C)	0	9	ð	• 0 •	(N 4) 10 M	gs 400 per 400 ter	# # # #
Other Adult to Group	9	• • 3	O	o	Q	ü	n	0	ti	o	0	0	• 0 •	add one yes the	object parts and other	****
Student to Group	10	• 0	o	o	C	0	0	0	0	0	0	1		0.000	0.200	0.000
hone of the above	11	• • 1	0	0	0	9	0	Ö	o	t)	0	85	. 86	.985	* 9 7 Y	.477
		******	+ 4 4 4 4 4	F ◆ ◆ 4: ◆ 4	++++	* * * * *			****			**/* 3	++++++++			
Hargina) To		•	0	0	е	ø	ņ	3.	ŋ	9	o	88	. 90 d	· ·		
		* *****	****	\$44 0 5	****	++++	****	++++	++++	****	F • · · • •		******			

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Catagory Hardinal Agraghanti - . 2945

Cotton's Kappe's (32)

(; 'l,)



Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Date: 06-25-79 Program: RELP9S Data File: RELD1

Reliability on Interactions
Observer 30 Expert 80
School 801 Grade 5
Week 9 Day 5
DMF

				Cet	agory	chos	au pa	0b=e	rver	30			Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expert 80	Cat,	1	2	3	4	5	6	7	8	9	10	11	Totals	Agreement	Agreement	of Kappa
	•	• • • • • • •	****	• • • • •	• • • • •	****	* * * * *	****	****	****	****	****	******			
Target to Teacher	1 +	0	0	0	0	1	0	0	1	6	0	1	3	0.000	,333	•.011
Target to Other Adul	, 2 +	Q.	0	0	0	0	0	0	0	0	0	0	• 0	# ** ** ** **	do *** en de 4a	***
Target to Student	3 •	0	0	1	0	0	c	0	0	0	0	0	1	1.000	,125	1.000
Target to Tchr & Grp	4 +	0	0	0	0	0	0	0	0	0	0	0	0	47 49 49 49	0.000	***
Teacher to Target	5 •	1	0	0	0	0	0	o	0	0	0	0	1	0.000	.500	023
Other Adult to Targe	t 6 +	0	0	C	0	0	0	0	0	Q	0	0	0	· \$60 pps case time \$40	**********	***
Student to Target	7 +	0	0	0	1	0	0	0	0	0	0	O	1	0.000	0.000	0.000
Teacher to Group	8 +	v	0	0	1	0	0	0	6	0	0	5	12	.500	.750	. 444
Other A 'ult to Group	9 4	0	0 e	0	0	0	0	0	0	0	0	0	• 0	***	(g) (q) (r) (#) (f)	***
Student to Group	10 +	0	0	0	0	0	0	0	0	0	0	0		<i>f</i> •••••	***	***
None of the above	11 *	0	0	7	2	1	0	0	5	0	0	60	+ 72	,833	,917	,375
	4	*****	****	****	++++	****	* * * * *	* * * * *	* - * + ·	• • • • •	****	• • • • •				
Marginal To	tols +	1	b	8	4	2	0	0	9	0	0	66	. 90	•		
	•	*****	****	****	****	****	. 	****	****	• • • • •	****	• • • • •	*****	•		

Category Marginal Agreement: .375

Cohen's Keppal .359



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Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Date: 06-25-79 Program: RELP9S Date File: RELD1

Reliability on Interactions
Observer 40 Expert 80
School 801 Grade 5
Week 9 Day 5
DMP

Category chosen by Expert 80	Cet:	1	2	Cet	egory 4	cho:	en by	0b 9 6	e e	40	10	11	Mergina) Totals	Nomina; Agreement	Mergine: Agreemant	Light's Extension of Kappa
by Expert du		-	F.		*		Ū	·	_				•••••			
	•	*****	****	****	~ ~ • • •	••••	****	****	, , , , , ,	, , , , , ,	****	• • • • • • •	•			
Target to Teacher	1 +	1	0	0	Q	0	0	0	5	0	0	0	+ 3	.333	.667	,318
Target to Other Adul	t 2 •	0	0	0	0	0	U	0	0	0	0	0	• 0	•		****
Target to Student	3 •	0	0	1	0	0	0	0	0	0	0	0		1.000	.250	1,000
Target to Tchr & Orp	4 +	0	0	0	. 0	0	0	0	0	0	0	0	• 0	* ****		() () () () () () () () () () () () () ()
Teacher to Target	5 +	0	0	0	0	1	0	e	0	0	0	0	• 1	1.000	.500	1.000
Other Adult to Targe	• • 6 •	0 h	0	0	0	0	0	0	0	0	0	0	• 0	•	· gp thi do go to	***
Student to Target	7 +	0	0	0	0	0	0	1	0	0	0	0	• 1	1.000	.250	1.000
Teecher to Group	• 6 •	, 0	0	0	0	0	0	1	7	0	0	4	• 12	• ,583	,545	,449
Other Adult to Group	9 +	0	0	0	0	0	0	0	0	0	0	0	• 0	• • •••••		
Student to droup	10 +	O	0	0	0	0	0	0	0	0	0	o	• 0	• • ••••	On the state of the state	****
hone of the ebove	11 +	1	0	3	0	1	0	2	13	0	0	52	• 72	. ,722	.770	.268
	•												•	•		
	•												*			
Merginel To	•	2	0	4	0	2	0	4	55	0	0	56	+ 90			
	•	*****	++++	+ • • • •	* * * * *	****	****	****	* * * * *	* * * * *	****	* * * 	• • • • • • • • • •	•		

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Category Marginal Agreement! .498

Cohen's Kappal ,359



Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Date: 06-25-79
Program: RELP9S
Date File: RELD;

Reliability on Interactions
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 5
WDRSD

				Cat	egory	chos	en by	0610	rver	10			Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expert 90	cat.	i	5	3	•	5	6	7	6	9	10	11	Total#	Agreement	Agreement	o∮ Kappa
	•	*****	*****	****	****	++++	****	****	****	****	****	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•			
	4	• • • •										0	. 0 •	· • • • • • •	0,000	****
Total	1 +	0	0	0	0	0	0	0	0	0	Ĝ	•	•			
Target to Teacher	• ;	•									_	A				****
	4 S +	0	0	0	0	0	0	0	0	0	0	Ü				
Target to Other Adul	T # T	v	U	•	•							_	•	, 333	,429	,254
	_ +			,	0	0	0	0	O	0	0	2	. 3	• • • • • • • • • • • • • • • • • • • •	V 1	·
Target to Student	3 +	0	0	1	V	U	•	•					•		1.000	-,015
, ,	•	ı			_		•	0	0	0	0	1	* 1 ·	0,000	1.000	-,,,,,
Target to Tchr & Gri	• •	. 0	0	0	0	0	0	U	v	•	•		•	,		
101906 60 10111 2 3	•	•							_		0	0	• 0	****	0.000	
	5 +	. 0	0	0	0	0	0	0	0	0	v	•	•	•		
Teacher to Target			_								_		• 0			
_			0	0	0	0	0	0	0	0	0	0	• •			
Other Adult to Term	st 6 +	· ·	U	•	•	•	_						•		0.000	0.000
	•	•	_			0	0	0	0	0	0	1	* 5	• 0.000	04044	• • • •
Student to Target	7 •	• 0	0	1	0	U	v	v	•	•			•	•		,892
	•	•					_	_	• •	0	0	1	. 12	+ ,917	.800	1076
Teacher to Group	8 4	0	0	0	0	0	0	0	11	U	•	•	•	•		
IMMCHME TO DIVOR		_								_	_		• 0			
		0	0	0	٥	O	J	0	0	0	0	0		•		
Other duit to drou	p 9 (v	•	•								•	·	0.000	
	•	•	_		0	0	0	6	0	0	0	0	• 0	•		
Student to group	10	• 0	0	0	v	U	•	•					•		,613	,287
	•	•		_		_		0	4	0	1	34	+ 48	+ ,798	1013	V -0.
None of the above	11	• 1	0	5	1	2	0	U	-	•	•		•	•		
HOME OF SILE COSTS		•												•		
		* * * * * *	*****	****	****	++++	****	****	****	• • • • •	****		A	•		
		.											. 66	•		
<u>.</u>		• •	0	7	1	2	Q	0	15	0	1	39	• 94	•		
Marg: nai T			-	•									•	•		
	•	* *****		 .						****	++++	*****	• • • • • • • • • • •	•		
		*****	*****	, , , , , ,		+ + + + +										

Catagory Marginal Agreement: .380

Cchen's Kappal .422



Table 338

Reliability on Interactions
Observer 20 Expert 90
School 801 Grade 2
Week 9 Day 5
WDRSD

Date: 06-25-79 Program: RELP98 Data File: RELD1

				Cat	egory	chos	en by	0686	rver	3 0			Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expert 90	Cat.	1	2	3	4	5	6	7	8	9	10	11	Totals	Agreement	Agreement	of Keppe
		• • • • • •	• • • • •	*****	****	****	****	****	****	****	****	*****	******			
Toront to Youghan	1	• • 0	0	0	0	0	0	0	0	0	0	0	• 0	****		••••
Target to Teacher	•	•	-	0	0	0	0	0	0	0	0	0	• 0		60 00 00 00 00	(a) (b) (a) (b) (b)
Target to Other Adult	. 2	•		_			_	_		0	0	1	. 3	,667	.500	,633
Target to Student	3	• 0	0	2	0	0	0	0	0	V	·	•	•	•	A 40f	0.000
Target to Tchr & Grp	•	• 0	0	0	0	0	0	0	0	0	0	1		0,000	0,000	V
Teacher to Target	5	• • 0	0	0	0	0	0	0	0	0	0	Q	• 0		, pp. 49 49 49 48	
	t 6	• • 0	ò	0	0	0	0	0	0	0	. 0	0	• 0	***	(1) 44 to 40 9	****
Other Adult to Targe	•	•	-				0	0	0	0	0	1	• a	0,000	0.000	0,000
Student to Target	7	• 0 •	0	1	0	0	U				_	•	+ 12	,633	.857	,788
Yeacher to Group	8	• 0	0	0	0	0	0	0	10	0	C	8	+ 14	, 1033		
Other Adult to Group	9	• • 0	0	0	0	0	0	0	0	0	0	0	• 0	*****	· *********	****
Student to Group	10	• 0	0	0	0	0	0	0	0	0	0	0	. 0	· • • • • • • • • • • • • • • • • • • •	0.000	*****
		•	_	3	0	0	0	0	4	0	1	40	+ 48		,938	,476
None of the above	11	• ° °	U	J	V	v	v	·					•	•		
		*****	++++	****	****	* + * * + 	• • • • •	****	****		* * * * *	. =	•	•		
" Merginei To	tals	• 0	0	6	0	0	0	0	14	0	1	45	+ 66 +	• •		
		*****	****	*****	****	• • • • • ·	****	****	****	****	****	****	*******	•	633	

637

Category Marginal Agreement: .382

Cohen's Kappa! .540



Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Date: 06-25-79
Program: RELP95
Date File: RELD1

Reliability on Interactions
Observer 30 Expert 80
School 801 Grade 2
Week 9 Day 5
WDRSD

Category chosen by Expert 80	Cat.	1	5	3	e gory 4	5	6	0690 7	8	9	10	11	Marginal Totals	Nominal Agreement	Margina; Agregment	Lightis Extension of Kappa
		•	* * * * * *	* * * * * *	•••								•			- 017
Target to Teacher	1	• 0	0	0	0	0	0	0	0	0	0	1	• 1 •	0.000	1.000	-,017
Target to Other Adult	2	• • 0	0	0	0	0	c	0	0	0	0	0	0 •	10 to 40 40		-+
Target to Student	3	• Q	0	2	0	0	0	0	0	0	0	0		1.000	.500	1.000
Target to Tchr & Grp		•		0	0	0	0	o	0	0	0	0	• 0 •	· 10 op 60 op 0	go 45 40 40 40	****
Target to Tenr & Orp	•	,	·	•	·	•				_	_	_	•			***
Teacher to Target	5	• 0	0	0	0	0	0	0	0	0	0	0	• 0 •		40-04	
Other Adult to Target	6	• • 0	0	0	0	0	0	0	0	0	0	0	0		****	****
Student to Yarget	7	+ ← 0	Q	1	0	0	0	1	0	0	0	0	2	.500	1.000	.483
Teacher to Group	В	* • 0	0	0	o	0	0	o	3	0	0	7	10	,300	.300	, 263
Other Adult to group	9	4	0	0	0	0	0	0	0	0	C	0	• 40	1. /·	***	
Other Addit to didde	-	4,	_	·		•				_	_	_	•	· · · · · · · · · · · · · · · · · · ·		
Student to group	10	• 0	0	0	0	0	0	Ó	0	0	0	0	. 0			
home of the above	11	• • 1	0	1	0	0	0	1	0	0	0	42	+ 415	,933	, 900	. 600
		* *****	****			****				****	****		• • • • • • • • • •	•		
Marginal Tot		• 1	0	4	0	0	ŧ)	2	3	0	0	50	÷ 60	• •		
		*****	*****	****		****	****	****	****	****	****	+++++	*******	•		

Category Marginal Agreementi .740

(J)

Phase IV - IGE Evaluation Project
Descriptive Study - Spring 1978

Date: 06-25-79 Program: RELP9S Data File: RELD1

Reliability on Interactions
Observer 40 Expert 80
School 801 Grade 2
Week 9 Day 5
WDRSD

				Cat	egory	c'.08	en by	0pse	rver	40			Marginal	Nominal	Margines	Lightis Extension
Category chosen by Expert 80	Cat,	1	2	3	4	5	6	7	8	9	10	11	Totals	Agreement	Agreement	of Kappa
	4	*****	****	****	****	****	****	****	****	****	****		******			
Target to Teacher	1 +	0	0	0	0	0	C	0	0	0	0	1	1	0.000	0.000	0,000
Target to Other Adul	t 2 +	0	0	0	0	0'	0	0	0	01	0	0	0	****	# * * *	
Target to Student	3 •	0	0	0	0	0	0	1	0	0	0	1	2	0.000	1.000	-,034
Target to Tchr & Grp	4	0	0	ø	0	0	0	0	0	0	0	0	. 0	· 190 (pr air 191 (Pr	** • • • •	\$1 13 40 40 40
Teacher to Target	5 +	0	0	0	0	0	0	0	0	0	0	0	• 0 •	· (5) 40 40 40 40	9º 40 40 40 ⁴⁰	100 to en co 40
Other Adult to Targe	t 6 •	0	0	0	0	0	0	0	0	0	0	0	. 0	(B) (B) (B) (B) (B)	****	****
Student to Target	7	0	0	1	0	0	0	1	0	0	0	0	. 2	•500	1.000	,483
Teacher to Group	8 •	0	0	0	0	0	0	0	7	0	0	3	10	,700	.900	.47
Other Adult to Group	9 •	0	0	0	0	0	0	0	0	0	0	0	• 0	• • • •	# W	****
Student to Group	10 +	0	0	0	0	0	0	0	0	0	0	0	• 0		0.000	40 40 40 10
None of the shove	11 *	0	0	1	0	0	0	0	5	0	1	41	45	.911	,976	.639
	•	****	****	****	****	****	• • • • •	****	****	****	****	*****	******			
Marginal To	tals +	0	0	2	0	0	0	2	9	0	1	46	60	·		
	•	. • • • • • •	****	****	****	****	****	****	****	****	****	*****	******		642)
0.21															O XX	•

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Category Margina! Agreement: .646

Cohenis Kappal .339



Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Date: 06+25-79 Program: RELP9S Data File: RELD1

Reliability on Interactions
Observer 10 Expert 90
School 801 Grade 2
Week 9 Day 5

Category chosen by Expert 90	Cat,	1	2	Cat	egory 4	chos:	en by	06 9 e i	rver 8	10	10	11	Margine; Totals	Nominal Agreement	Merginei Agreement	Lightis Extension of Kappa
	•	*****	****	****	****	• • • • •	****	++++	* * * * *	****	****	****	*****	•		
target to Teacher	1 +	1	0	0	0	0	0	0	e	0	0	1	• 5	,500	1.000	,488
	•		-	0	0	0	G	0	0	C	C	0	+ 0	• • • • • • •		***
Terget to Other Adult	2 •	. 0	0				-			•	0	e	• 0	• • •••	0.000	****
Target to Student	3 +	0	0	0	0	0	0	0	0	0				•	0.000	0.000
Target to Tchr & Orp	4 +		0	0	0	0	0	0	0	0	0	1	• 1	• 0.000	-	
Teacher to Target	5 •		0	0	C	0	0	G	0	C	0	0	• 0	• ••••••••••••••••••••••••••••••••••••	(m) (n) (m) (m)	00044
Other Adult to large	• • 6 •	0	0	0	0	0	0	0	0	0	٥	0	• 0	• • • • • • • • • • • • • • • • • • •		
	7 4		0	0	O	0	0	3	0	C	0	1	• 3	.500	,500	, 494
Student to Target	•	•		0	С	ø	c	0	3	0	0	1	• •	.750	.800	,734
Teacher to group	8 4	• 0	0						•	0	0	0	•	• *****	at the see for the	
Other Adult to Group	9 4	• 0	0	0	O	ŋ	C	0	0	_		•	•		0.000	
Student to Group	10	• 0	0	0	0	n	9	n	Ó	O	0	Q	• 0 •	•	-	.440
None of the above	11	1	£	i	0	0	0	n	5	c	1	70	• 75	• ,933 •	,987	.440
	•	• • • • • • • •	• • • • •	• • • • •		****			****	****	* * * * *	****	* * * * * * * * * *	•		
Marginal To	• # I # •	• 2	0	1	0	o	0	ì	3	Ó	1	74	. 84	•		
Maryinai 10		• • • • • • •	_	•		-						****	• • • • • • • • • • •	• *		
	•	• • • • • •	••••	* * * * * '	* * * * * *	. .	, , , , ,	****								

Category Harginal Agreements .4470

Cohenit Keppal 4489

ERIC PRUIT GEART PROVIDED STATES

Table 342

Date: 06-25-79 Program! RELP95 Data File! RELD!

Reliability on Interactions Observer 20 Expert 90 School 801 Grade 2 Week 9 Day 5 DMP

Cetegory Chosen by Expert 90	Cat #	•	1	8	Cate	90ry 4	cho#	en by	0b#4	rver 8	2 0	10	11	Margina; Totals	Nomina; Agraement	Marginai Agreement	Lightie Extension of Kappe
		• • •	****	****	++++	• • • • •	• • • • •	****	****	****	****	****	*****				
Target to Teacher	1	*	1	0	0	0	0	0	0	0	c	Q.	1		.500	.667	,481
Target to Other Adult	t 2	*	0	0	0	0	0	0	0	0	0	0	0	• 0 •	· (0° cm up cm ===		
Target to Student		*	0	0	0	0	c	0	0	0	0	0	0	• 0 •	- 	0,000	
Target to Tchr & Grp		• •	0	0	0	υ	0	0	t,	0	0	0	1	• • • • • • • • • • • • • • • • • • •	0.000	0.000	0.000
		•	·	·		0	0	0	0	0	0	0	0	• 0 •	· #######	0.006	
Teacher to Target		+	0	0	0		•	•	-	•	•	0	0	• 0		** ** ** ** **	(a + = a y
Other Adult to Targe	t 6	•	0	0	0	0	0	0	0	0	0	•	•	•	0.000	.500	-,012
Student to Target	7	•	0	0	1	0	0	0	0	0	0	0	1	. 2	•	-	
Teacher to Group	8	•	0	0	0	0	0	0	0	3	0	0	1	• •	750	.750	.741
Other Adult to Group	9	•	0	0	9	0	0	C	0	0	0	0	0	• 0	*****	· (40 00 (40 00 00 00 00 00 00 00 00 00 00 00 00 0	***
Student to Group	10	•	0	0	0	0	0	0	0	0	0	0	0	• 0	****	***	****
None of the ebove	11	. +	2	O	1	Q	1	0	1	0	0	0	70	75	,933	,947	.440
		•	••••	****	****	****	****	****	****	****	· • • • •	• • • • •	*****	******			
Herginal To	ta:=	•	3	0	2	0	1	0	1	3	0	0	74	. 84			
.	•	*	*****	****	****	* * * *	****	****	****	****	• • • • •	****	*****	* * * * * * * * * * * * * * * * * * *		6	ن يُرُ

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Category Marginal Agreement: .415

Cohenit Kappal .455



Phase IV - 18E Evaluation Project Descriptive Study - Spring 1978

Reliability on Interactions
Observer 30 Expert 80
School 801 Grade 2
Week 9 Day 5

Date: 06-25+79 Program: RELPSS Date File: RELD:

				Cate	BOCY	chose	en by	0680	rver :	30			Marginal	Nominel	Marginal . Agreement	Light's Extension of Kappa
Category chosen (Cat.	1	2	3	4	ช	6	7	8	9	10	11	Total8	Agreement	ASCAGNANT	
		*****	****	++++	****	****	****	****	****	****	****		•	1		0.000
	•		•					_	•	0	0	0	. 1	0.000	0.000	0,000
Torget to Teacher	1 *	0	0	0	0	1	0	0	0	0	0	0	• 0		***	. 🕶 🗯 💝 🐸
Target to Other Adult	5 +	0	0	0	0	0	0	0	0	0	0	2	+ + 2	0,000	,500	. ,050
Target to Student	3 +	0	0	0	0	0	0	0	0	0	0	0	• 0	• ## \$##	0.000	* * * * * *
Target to Tchr & Grp	4 •	0	0	0	0	0	Q	0	0	0	6	0	* 0	• ====	0.000	
Teacher to Target	5 •	0	0	0	0	0	0	0	0	0	0	0	+ 0	+		\$1.00 €1.00 €1
Other Adult to Target	. 6	0	0	0	0	0	0	0	0	0	0	1	• • 4	+ 0.000	0.000	0.000
Student to Target	7 .	0	0	2	1	0	0	0	5	0	0	4	• 9	• • •556	1.000	.502
Teacher to Group	8	0	0	0	0	0	0	0	0	0	0	0	+ 0	+ + ******	***	***
Other Adult to Group	9 (0	0	0	0	0	0	0	0	0	0	0	• 0	• ***	(6) 40 40 40 40	****
Student to Group	10	0	0	0	0	0	0	0	4	0	0	59	• • 68	,860	,971	, 262
None of the above	11	• 0	0	2	1	2	, , 0				***	+++++	* ******			
Marginal To		• • • • • • • • • 0	0	· * + * * *	5	3	0	0	9	; 0	0 • • • • •	66 +++++	* 84 * ***	* * *		
		*****	****	• • • • • •	****	*****	* * * * *	• • • • • •	,	, , , ,				,		

Category Marginal Agraement; .383

Cohen's Kappel .322

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Table 344

Phose IV - 10% Festiontion Project Descriptive Study - Spring 1978

Date: 06-25-79 program: RELP98 Date File: RELD1

Reliability on Interactions
Observer 40 Expert 80
School 801 Grade 2
Week 9 Day 5
DMP

Category chosen	Cat.	1	2	Cat 3	e gory 4	cho#	en by	05 9 8	rver 8	40 9	10	11	Margina; Totals	Nominal Agreement	Marginal Agreement	Lightis Extension of Kappa
by Expert 80			-	• • • • •	****	••••	****	****	****	****	****	• • • • • •	******			•
Target to Teacher	1	0	0	0	0	1	0	0	0	0	0	0	• 1	0.000	0.000	0.000
Target to Other Adult	_ (•	0	0	0	0	0	0	n	0	0	0	• 0	·) app are the last	gan gap dan gan 989	****
Target to Student	3	•	0	0	c	Ů	0	1	0	0	0	1		0.000	1.000	 024
Target to Tchr & Grp	4	• 0	0	0	0	Q	0	0	0	0	0	0	• 0	· (######	40 40 to 40	
Teacher to Target	5	•	0	o	0	ø	0	0	0	0	0	0	• 0	e den som om den den	0.00	() ## ## ##
Other Adult to Targe	i	*	0	0	0	0	0	c	0	0	0	0	• 0,	· · · · · · · · · · · · · · · · · · ·	and the second	*****
Student to Target	7	+ 0	0	0	0	0	e	2	¢	0	ø	3		. 500	. 750	.481
Teacher to Group	8	•	0	o	0	0	U	0	5	D	ø	6	•	.556	1.000	,502
Other Adult to Group		•	0	0	0	0	0	a	c	0	Q	Q	. 0	i positiva en	计知识的	
Student to Group	10	• • 0	O	0	O	e	c	9	0	0	¢	6	• 0	. www.##	9.000	***
None of the above	11	•	n	2	0	0	Q	0		Ü	1	61	÷ 66	,897	1.000	.460
	_	+ ++++	*****	****	•••	****	+ +++		**	****	****	****	******	, ,		
Margina: To	tals	• 0	0	2	0	,	0	3	ð	ø	\$	66	6 85	τ ▶ •		
		* *****	****	++++	*****	****	^ + + ^ +	• • • • •	\$ \$ \$ \$ \$ \$ \$	****	+ + + + +	***	*3****	•	G	50

649

Category Mergino: Agreement: . 836

Cohenia Kappal +424



APPENDIX C

Contingency Tables for each Set of Observation Categories for Pairs of Observers for the On-site visits to the WDRSD and DMP Schools



Appendix C

Included in this appendix are:

Tables	345	-	350	Observer	10	School	452	Grade	2	Week	5	Day	3
Tables	351	-	356	Observer	10	School	452	Grade	5	Week	5	Day	3
Tables	357	-	364	Observer	10	School	452	Grade	2	Week	15	Day	5
Tables	365	_	370	Observer	20	School	504	Grade	2	Week	4	Day	1
Tables	371	-	378	Observer	20	School	504	Grade	2	Week	15	Day	2
Tables	379	-	387	Observer	20	School .	504	Grade	5	Week	15	Day	2.
Tables	388	-	393	Observer	30	School	433	Grade	2	Week	4	Day	4
Tables	394	_	402	Observer	30	School	433	Grade	5	Week	16	Day	2
Tables	403	_	410	Observer	40	School.	440	Grade	5	Week	4	Day	4



Rejiability on General Content
Observer 10 Expert 90
School 452 Grade 8
Week 5 Day 3
WDRSD

		Cat	egory	chos	en by	Qb s •	rver	10	Marginal	·Nomine!	Marginel	Light's Extension
Category chosen by Expert 90	Çat, #	1	2	3	4	5	6	7	Totals	Agreement	Agreement	of Kappa
	***	****	****	****	****	****	****	*****	*******	•		
hait	1 +	0	0	0	0	0	0	0	• 0	ga dip ett ette gan	(a) do to 100 PP	# # P * #
Transition	5 + +	0	13	0	0	0	0	0	13	1.000	,929	1.000
Management	3 +	0	0	1	0	0	0	0	. 1	1.000	, 333	1.000
Break		0	0	0	0	0	0	0	• 0	• # « = = = = = = = = = = = = = = = = = =	43 to 20 to 70	# # # # #
Nonecedemic	• 5 •	0	0	0	0	0	0	0	+ 0) 	. 🚓 🐽 🕫 💝	40 40 to 40
Other Academic	6 +	0	Ó	0	r	ņ	¢	0	•	1.000	1.000	1,000
hone of the Above	7 •	0	1	2	0	0	0	51	• 54 • 54	, 944 •	,944	.810
	*	****	****	****	* * * * *	****	****	+++++	******	•		
Marginal T	otals +	0	14	3	0	0	•	51	* 72 ·	♦ ♦		
	+*	****	*** *	• • • • •	*****	****	****	*****	******	•		

Category Merginal Agreement: .802
Cohents Kappe: .903

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Table 346

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Pace
Observer 10 Expert 90
School 452 Grade 2
Week & Day 3
WDRSD

	Cat.	by		ry c erve	hoser r 10		argina	. 1	Nominal	Marginal	Light's Extension
Category chosen by Expert 90	#		1	5	3		Total		Agreement	Agreement	of Kappa
		+++++	++++	+++	++++	• + + • •	++++	+++			
		<u>.</u>		-		•		+			
Self	1	*	4	1	1	•	6	+	.667	.857	,631
other	2	+	3	26	2	* *	31	+	.839	.871	.742
O V O .		+				+		+			
Neither	3	•	0	0	35	•	35	•	1.000	,921	1.000
		+				+		+			
		+++++	++++	++++	++++	+++	++++	+++			
		+				+		•			
Marginal Tot	AIS	+	7	27	38	+	72	+			
1141 211141 104		•				•		+			
		++++	++++	****	++++	+++	* * * * *	+++			

Category Marginal Agreement: .883

Cohen's Kappai .831



Table 347

Reliability on Grouping
Observer 10 Expert 90
School 452 Grade 2
Week 5 Day 3
WDRSD

		ategory	chos	en by	Ob#4	rver	10 Marginal	Nominal	Marg na!	Light!s Extension
Category chosen by Expert 90	Cat.	1	2	3	4	5	Totals	Agreemant	Agreement	of Kappa
	•	******	++++	++++	* * * * *	****	• • • • • • • • • • • • • • • • • • •	•		
	1 .	• ن 4	0	0	1	1	+ 6	. 667	1.000	,636
Individual	ب ج	•	3	0	1	0	+ 5 ·	• • 500	.500	,493
Pair	•	•	0	0	0	0	+ + 1	0.000	0.000	0.000
Small Group (3-8)	3	+ 1	U	V	·	·	•	•	0.4.4	,829
Large Group (>8)	4	+ 1	0	0	25	5	+ 28	893	,964	
None of the above	5	• • 0	0	0	0	35	• 35	1,000	,921	1,000
		*				****	*****	•		
marginal T	01515	• • • • • • • • • • • • • • • • • • •	1	0	27	38	+ + 72	•		
Maryinai i	U (* ******	* * * * *		* * * * *	••••	* * * * * * * * * * * * * * * * * * * *	•		

category Marginal Agreements .677

Cohen's Kappat .835

651

Table 348

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 10 Expert 90
School 452 Grade 2
Week 5 Day 3
WDRSD

Material: Paper/pencil

Category chosen	Cat.	Cated by O	gory C oserve 2	hosen r 10	Me	irgina Iotali		Nominal Agraement	Marginai Agreement	Light's Extension of Kappa
by Expert 90							++			
	•	++++++	**** *		* * *		+			
	1	+ + 6	3	1	+	10	+	.600	.600	.564
Us⊕d	ı	•			+		+		044	.879
Not used	2	→ 0	25	5	+	27	+	.926	.964	•0.,
NOC GREG		+			•		•		,921	1.000
- • •	3	• 0	0	35	+	35	•	1.000	•	
Other	J	•			+		+			
					+++	++++	+ + +			
			• • • • •		•		+			
Marginal	Totals	÷ + 6	88	38	+	72	+			
		+++++	++++	* * * * * *	• • • •	****	+++			

Category Marginal Agreement: .828

Cohen's Kappal .858



Table 349

Phase IV - 10E Evaluation Project
Descriptive Study - Spring 1978

Peliability on Learner Moves
Observer 10 Expert 90
School A52 Grade 2
Week 5 Day 3
WDRSD

A A A A A A A A A A	•	Cat	egory	chos	en by	06.84	rver	10	Marginal	Nominal	Marginal	Light's Extension
by Expert 90	Cat,	1	5	3	4	5	6	•	Totals	Agraement	Agraement	OF KAPPA
	• •	*****	****	****	****	*****	****	****	********			
Engaged - written	1 •	1	0	2	5	0	0	1		,167	.167	. 155
Engaged - orel	2 •	0	. 0	0	0	0	0	0	0	l gas you die rein des-	0.000	****
Engaged - covert	3 •	o	ı	14	0	0	0	1	. 16	.875	.889	, 833
Not engaged - interi	m 4 +	0	0	0	3	0	0	n	3	1.000	.500	1.000
Not engaged - waitin		0	1	1	1	0	1	1	. 5	0.000	0.000	0.000
Not engaged -off tes	× 6 +	0	0	1	0	0	6	0	7	.857	1.000	, 848
hone of the ebove	7 •	0	0	0	0	0	0	35	35	1.000	,921	1.000
	• •			• • • • •	****	* * * * * *	****	• • • • •	• • • • • • • • •	•		
Merginel To	* * * * * * * *	1	2	18	6	0	7	36	72	•		
	• •	* * * * * *	***	: * * * * 4	* * * * *	• • • • •	* * * * *	• • • • •	*******	•		

Category Margina: Agreement! - +497

Cohenia Kappal .738



Table 350

Date: 06-25-79 Program: RELP95 Data File: RELD3

Reliability on Interactions
Observer 10 Expert 90
School 452 Grade 2
Week 5 Day 3
WORSD

				Cat	e gory	chos	en by	0586	rver	10			Merginai	Nominal	Merginai	Lightis Extension
Category chosen by Expert 90	Cat.	1	2	3	4,	5	6	7	8	8	10	11	10101	Agreement	Agreement	of Kappa
By Expert 30		• • • • • •				••••	****	****	*** *	****	***		****			
		* * * * * * * * * * * * * * * * * * *	****	• • • • •	• • • • •					•	0	0	• 0 •	-	0.000	60 m € 44 44
target to teacher	3	• 0	0	Ö	0	0	0	0	0	v	U	v		•		
Target to Other Adult	t 2	• 0	Ō	0	0	0	0	. 0	0	0	0	0	• 0	• • • • • • • • • • • • • • • • • • •		3000
	3	• C	0	٥	0	0	0	0	0	0	0	0	• 0	53 40 40 F7 40	0.000	****
Target to Student	3	•	•	_	_		_	_	•	0	o	0	• 0			***
Target to Tchr & Orp	A	• 0	0	0	0	0	0	0	0	٧	٧		•	•		
Teacher to Target	5	•	0	0	0	0	0	0	0	0	0	0	• 0			
Other Adult to Targe	t 6	• 0	0	0	0	0	0	0	0	0	0	0	• 0			#
Ofueb Monit to in me	•	•	_		_		0	0	1	0	0	0		0.000	0.000	0.000
Student to Target	7	• 0	o	0	0	Ċ	U	U	-			_	• 7	,714	,857	,686
Teacher to Group		• 0	0	0	0	0	0	0	5	0	0	2	•	• / • -	•••	-
Other Adult to Group	9	• 0	0	0	0	0	0	0	0	C	0	0	+ 0	***		
		•	•	0	0	0	0	ก	0	0	٨	1	. 5	. 800	,600	,786
Student to Group	10	• 0	0	U	V	V				_	•	57	• 59	,766	,983	.747
none of the above	11	• 1	C	1	0	0	0	0	0	0	0	9 7	•	•	·	
		•	*****	****	• • • • •	* * * * *	• • • • •	****	****	• • • • •	* * * * *	****	• • • • • • • • • • •	• •		
		• • 1	0	1	o	0	0	ń	6	0	•	60	• 72	•		
Margina! To	7 0 1 6	•	·								.		* *******	e +		,
		*****	****	****	* * * * *	• • • • •	* * * * *	* * * * *	****		- • • • •	· • • • •	***			is in

63 11

Catagory Marginal Agreement: .440

Cohen's heppel .727



Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on General Content Observer 10 Expert 90 School 452 Grade 5 Weak 5 Day 3

		Cate	gory	chos	en by	0b s •	rver	10	Marginal	Nominal	Herginal	Light's Extension of Kapps
Category chosts De theaks wd	Cat. #	1	5	3	4	5	6	7	Totals	Agreement	Agreement	Of Kepro
	• •	• • • • • • •	++++	****	****	****	*****	./		1,000	1.000	1,000
weit	1 •	2	0	0	0	0	0	€		•		1.000
	2 +	0	1	0	0	0	0	0	• 1	1.000	1,000	1.000
Transition	•	•	•		_		0	0	• 0	•		
Management	3 +	0	0	0	0	0	v	·	*	•		
Sreek	4 •	0	0	0	0	0	0	0	• 0	•		_
	• 5 •	. 0	0	0	0	0	0	0	• 0	• •••••		
Nonacademic	•		-		_	0	0	1	• 1	• 0.000	0.000	0.000
Other Academic	6 +	0	0	0	0	U	·	•	•	. 1,000	,964	1.000
None of the Above	7 •	0	C	0	0	0	0	62	• 62	+ 1,000	• • • • • • • • • • • • • • • • • • • •	
Hone or the house	•	, 			++++	****	• • • •	****	******	•		
mercine! 1	otals	8	1	0	0	0	0	63	. 66	* * *		
		• • • • • • •	• • • • •	****	****	****	++++	****	••••	•		

category Marginal Agreements .746

Cohents Kappas .852

Table 352

Reliability on Pace
Observer 10 Expert 90
School 452 Grade 5
Week 5 Day 3
WDRSD

Category chosen by Expert 90	Cat	•		ory coserve	hosen ir 10	Margina Totals	, 1	Nomina! Agreement	Marginai Agreement	Light's Extension of Kappa
D) EXPERT 90	*		•	_	Ū	10141				
		++	++++	++++	++++	++++++++	++			
		•				*	•			
Self	1	+	8	6	0	+ 14	*	.571	1.000	.456
		4	_		_	*	+		000	,596
other	5	•	5	43	0	+ 48	•	.896	,980	1270
Neither	3	+	1	0	3	+ 4	+	.750	.750	.738
		+	_			+	•		•	
		++	++++	+++++	++++	* + + + + + + + +	++			
		•				+	+			
Marginal	Totals	+	14	49	3	+ 66	+			
		•				•	•			
		++	++++	+++++	++++	+++++++	++			

Category Marginal Agreement: .910

Cohenia Kappai .559

6,4



Table 353

Reliability on Grouping Gbserver 10 Expert 90 School 452 Grade 5 Week 5 Day 3 WDRSD

		ategory	chos	en by	0b s e	rver		Nominai	Marginal	Light's Extension
Category chosen by Expert 90	Cat. #	1	2	3	4	5	Marginal Totals	Nominai Agreement	Agreement	of Kappa
	•	+++++	÷+++	++++	++++	++++	* * * * * * * * * * * * * * * * * * *		•	
Individual	1 +	8	0	0	2	0	+ 10 +	,800	.769	.751
Palr	2 +	0	0	0	0	0	+ 0 +	कीए बर्च एक दिए देव	0.000	as as to \$8 **
Small Group (3-8)	3 +	0	0	0	0	0	• 0	er en en en en	W 49 pp 40 40	200 Eas can \$60 400
Large Group (>8)	4 +	4	1	0	47	0	+ 52 +	.904	• 942 3	,627
None of the above	5 +	1	0	0	0	3	+ 4 +	.750	. \$50	,738
	• •	++++++	++++	++++	++++	++++	* * * * * * * * * * * *			•
Marginal T	otals +	13	1	0	49	3	<u>.</u> 66			
	•	++++++	****	++++	++++	++++	*******			

Category Marginal Agreement: .615

666

Cohen's Kappai ,683

667

÷

Таб1е 354

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 10 Expert 90
'School 452 Grade 5'
Week 5 Day 3
WDRSD

Material: Paper/pencii

O

			gory c serve		Manginal	Nominal	Marginal	Light's Extension
Category chosen by Expert 90	Cat. #	1	2	3	Marginal Totals	Agreement	Agreement	of Kappa
	•	+++++	+++++	+++++	. + + + + + + + + +	, ,		
U se d	1 +	47	0	0	+ 47	1.000	.959	1.000
Not used	s +	1	14	0	+ 15	.933	.933	.915
other	* 3 *	1	0	3	+ 4	.750	.750	.738
•	* *	+++++	+++++	++++	· · · · · · · · · · · · · · · · · · · 	• •		
Marginal	Totals +	49	14	3	+ 66	♦ ♦		
	+	*****	+++++	++++	++++++++	+		
								669

gategory Marginal Agreement: .881

Cohen's Kappai .928

Phase, IV - IGE Evaluation Project Lescriptive Study - Spring 1978

- Reliability on Learner Moves
Observer 10 Expert 90
School 452 Grade 5
Week 5 Day 3
W WDRSD

;										ente			Light's Extension
	ï	Çe	100	OFY	chose	in by	0684	PVOL	10	Marginal	Nominal Agraement	Marginah. Agreement	OF Kappa
Catagory chosen by Expart 30	Cat	1	A	5	3	4	5	6	7	Totala	A A A A A A A A A A A A A A A A A A A		
	•	****	• • • •	***	*****	****	(****	*****	***	•		.400	.361
,		•		٥	3	0	1	2	0	÷ 10	. 400	, 400	
Engaged - written	1			v	, •			0	ø	• 0	• • • • • • • • • • • • • • • • • • •		6 m m m ts
Engaged - oral	2	0		0	. 0	Ö,	0	•	_	÷ 19	• • •895	,543	.776
Engaged - covert	3	• 0		• 0	17	Ö	0	2	0	3	• • ,333	1.000	•305
Not engaged - Interi	m A	. .)	0	1	1.	1	0	, O	•	. ,238	,475	.102
		•)	0	13	2	5	1.	Ø	. 21	•		,600
Not engaged - waitir	19 5	•			•	۵	2. 2	6	0	, 9	667	.818	,
not engaged -off tar	k 6	• ·)	0		. 0	,	0	3	• •	. 750	.750	.738
hong of the above	4	• (0	0	0	. 0				•	* • •		•
		****	+++	++	• + + +,+ +	****	• • • • •	•••		•	•		3
Mer. nel T	otals	•	4	r	35	3	10	11	3	• 66	•	·	
	i	*	* * *	• • •	*****	****	****	++++	*****	* * * * * * * * * * * * * * * * * * *	♥ ▼		44

Category Merginal Agreementi ,665

Cohenis Kappsi .40

Date: 06-25-79

Program: RELPS

Date File! RELDS.

Table 356

Phase IV ~ IGE Evaluation Project Descriptive Study ~ Spring 1978

Reliability on Interactions
Observer 10 Expert 90
School 452 Grade 5
Week 5 Day 3
WDRSD

LIGHTIS Marginal Marginal | Nominal Agreement Category chosen by Expert 90 Target to Teacher -Target to Other Adult 0000 0.000 0.000 Target to Student Target, to Tchr & Grp Teacher to Target Other Adult to Target 0.000 0.000. 0.000 Student to Target .214 .379 .345 Teacher to Group ----Other Adult to Group .711 .750 . 444 10 + Student to Group .681 .674 .903 None of the above Marginal Totals 672 671

Category Marginal Agraement: .300

Cohenia Kappal .359

ERIC
Full Text Provided by ER

Table 357

Reliability on General Content
Observer 10 Expert 90
School 452 Grade 2 8
Week 15 Day 5
WDRSD

42		Cat	gory	chos	מח שׁצִי	0b# =	rver	10	Marginel	Nominal	Marūlnei	Light's Extension
Category chosen by Expert 90	Cot.	1.	5	4 3	4 }	5	6	7	Totals	Agreement	Agreement	of Kappa
•	**	****** 2	* * * * *	• • • • • 0	0	••••	0	0	. 2	1.000	.667	1.000
Helt	1 +	\$	y (*	1	0	0	0 ′	0	* *	1.000	1.000	1,000
Transition	2 +	9	· '	S	0	0	. 0	0	÷ 3	,667	,667	.657
Managemen't.		• .	0	.0	3	0	p	0	• 3	1,000	1.000	1.000
Break	* 5 +	۰,۰	0	0	0	0	ò	0	• 0	♥ 	= = = = = = = = = = = = = = = = = = =	***
Nonecadem I C	• 6 •	. 0	0	0	0	0	12	0	12	1.000	1.000	1.000
None of the Above	7 •	0	0	0	0	0	0	45	45	1,000	1.000	. 1.000
Merginal	Total® +	3	7	2	3	0	12	45	• • 72	•		
	•	*****	• • • • •	****	****	****	***	****	******	•		

Category Marginal Agreements +889

Cohenia Kappai .976

Reliability on Pace Observer 10 Expert 90 School 452 Grade 2: Week 15 Day 5 WDRSD

		ROFY C	hosen er 10			Wanginal	Light's Extension		
Category chose by Expert 90	n ı	Cat.	1	s	3	Marginal Totals	Nominal Agreement	Marginal . Agreement	of Kappa
			++++++	+ + + + + +	+++++	++++++++	•		,
Self	*	1	+ + 13	1	. o	+ 14	+ .929	.875	.908
other	*1	2	+ +: 3	28 .	. 0	+ 31	+ .903	, 935	838
Neither	•	3	÷ + · 0	0	7 2 7	÷ '37	+ 1.000	1.000	1,000
			+ +++++*	++++	+ + + + _i + +	* *******	•		
Marg	Iņal	Totals	+ + 16	5 9	27	* + 72 +	• •	*	
	•	•	++++++	+ +.+ + + •	+++++	******	• • •	, in the second second	,

category Marginal Agreement: .937

Cohen's Kappai .914

675

Table 359

Reliability on Grouping
Observer 10 Expert 90
School 452 Grade 2
Week 15 Day 5
WDRSD

Category chosen	Cat,		y chos	en by	Observe	er 1	lo Marginal	Nominal	Marginal	Light's Extension
by Expert 90	, , #	1	5	3	4 5	5	Totals "	Agreement	Agreement	of Kappa
		* + + + + + + +	* * * * * *	++++	* * *, * * * * *	•++	· • • • • • • • • • • • • • • • • • • •	4/		
Individual	1	* 7	(o	1	O .)	+ 8 +	.875	.615	847
Palro	. 5	+ 5	5	0	0 0	,·)	+ + 10 +	.500	.900	.429
\$mail Group (3=8)	3	+ 1	4	4	0 0) .	+ + + + + + + + + + + + + + + + + + +	.167	•500	.130
Large Group 4>8)	4	+ • • 0	0	1	20 0		+ 21 +	.952	.952	,934
None of the above	5	+	0	0	0 27)	+ 27 +	1.000	1.000	1,000
• .		* *****	• • • • • •	*** **	• • • • • • •	, + ,++	* **********		† .	
Marginal To	tals	+ + 13	9	3	20 27	•	+ + 72 +			~
	•	+ +,++++++		++++	++++++	+ + +	+ + + + + + + + + + + + + + + + + + + +		1.	,

Category Marginal Agreement: .794

Cohents Kappa: .774

Phase	īν	- I	GE	Eva	Lua	tion	Pr	oject
Descr	lot	ive	5	tudy	-	SPri	ŊΩ	1978

Reliability on Materials
Observer 10 Expert 90
School 452 Grade 2
Week 15 Day 5
WDRSQ

Materiali Paper/pencil

سبر.	•	, ,	Catego by Ob	ory c serve	hosen r 10	Manglasi	Nominal	Marginal	Light: s Extension	
**	Category chosen by Expert 90	cat. #	1	5	3	Marginal Totals	Agreement	Agreement	of Kappa	
			++++++	++++	+++++	******)		
1	Used	1	23	1	0	+ 24. +	. 958	, 958	,939	
	Not used	2 4		21	٥	+ 21 +	1.000	• 955	1.000	
	Other	3 . •	♦ • 0	0	27	+ 27	1.000	1.000	1,000	
		•	+ + + + + + + + +	++++	+ + + + + +	+++++++	•		· .	
`	Marginal	Totals	+ 23	\$5	. 27	+ 72 +		•	\	
	•	•	+ ++++++*	++++	+++++	+++++++	•	• • •		
			/	•		. 1	•		•	

category Marginal Agreement: 97,1

Cohen's Kappa! .979

679

673

ERIC

Reliability on Materials
Observer 10 Expert 90
School 452 Grade, 2
Week 15 Day 5
WDRSD

Material: Printed material

		Cated by Ob	ioný c	r: 10 📡				Lightis Extension
gory chosen Expert 90	cat.	**************************************	12	3	.Marginal	Nominal	Marginal Agreement	of Kappa
		+++++	++++	· + + +, + + +	****			•
Used	\ 1	0 *	. 5	. 0	+ 2 +	0,000	C • 000	0,000
Not used	j g. 4		43.	o '	+	1.000.	.956	1.000
Other	.3	0	. 0	27,	+ 27	1.000	1.000	1,000
*	•		++++	+++++	* +++++++++		•	
Marginal.	Totals	• 0	45	27 .	+ 72			,
}	<i>)</i>	* ++++++	++++	+++++	++++++++	•	,	

category Marginal Agreement! .65

Cohenis Kappai .943

Table 362

Phase	IV	-	IGE	`Eval	U	ition	Pr	oject
Descr	Ipt	: I v	e S	tudy	•	Sprir	10	1978

Reliability on Materials
Observer 10 Expert 90
School 452 Grade 2
Week 15 Day 5
WDRSD

Material: Can't Tell

Category chosen by Expert 90	cat.		serve	chosen er 10	Marg Tot		Nominal Agreement	Marginal Agreement	Lightis Extension of Kappa
	+	+++++	++++	+++++	++++	++++	•		•
Used	+ 1 +	0	. 1	0	+	1	0.000	0.000	0.000
Not used	5 +	0	44	0	+ 4	4	1.000	.978	1.000
other	÷	0 ,	0	27	+ 5	7	1.000	1.000	1.000
	+	* * * * * *	++++	+++++	* • + + + + +	· + + + +	→		,
	·				+	•	+		
Marginal T	otals +	0	45	27	+ 7	5	♦		
	*	+++++	++++	+++++	+++++	* * * *	: ♦	•	. ·

category Marginal Agreement: .659

633

Cohen's Kappai .971

Table 363

Phase IV - IGE Evaluation Project Descriptive Study'- Spring 1978

Reliability on Learner Moves
Observer 10 Expert 90
School 452 Grade 2
Week**15' Day 5
WDRSD

4		•								•	•	Lightie
	0.4	Cat	egory	chos	en, by	0684	r ve r _{võ}	A PARTY IN	Marginal	Nominal	Margine! Agreement	extension of Kappa
Category chosen by Expert 90	Cat.	1	5	3	4	5 '	6	7	Totals	Agreemant	MALAHIMAN	•
•	. •	*****	****	****	****	* * * + *	****	*****	*****	•		
	+	5	1	\$	0	0.	0	0	. 8	.625	.875	,585
Engaged - written	•		-	•	0	. 0	0	0	÷ 3	,667	1.000	,652
Engaged - orai	5 +	0	5		,		4	0	. 24	,792	,958	,694
Engaged - covert	3 4	1 .	0	19	0	9	•	•	2	1.000	1.000	1.000
hot engaged - Inter!	m 4	, 0	0	0	5 .	• • 0	0	0	•	•		, 383
hot engaged - waltir	ng 5	1	0	1	. 0	. 5	1	0	5	♦ • ♦00 ♦	••00	•
	•	• · · · · · 0	0	0	0	. 0	3	0	. 3	+ 1.000	,375	1,000
Not engaged woff ter	7	•		0	0	0	0	27	27	1.000	1.000	1,000
None of the above	7	• 0 •	U						• • • • • • • • • •	♦ • .	•	
		*** <u>*</u> ***	****	* * * * * *	• • • • • •	***	-	·)	. 72	•		
* Merginal T	Pleto	7	3	53	5	2	8	27	+ /E	•		t 2
		~ *******	****	****	****	++++	****	*****	******	•		

Cohenis Kappet .773

Table 364

Reijability on Interactions
Observer 10 Expert 90
School 452 Grade 2
Week 15 Day 5
WDRSD

Date: 06-25-79 Program: RELP9S Date File: RELD3

	ı		,	Cat	egory	chos	en by	0644	rver	10.		•	Marginal	Nominal	Marginal	Lightis Extension
Catagory chosen by Expert 90	Çat.	1	2.	3 ·	4	5	6	7	8	9	10	.11	Totals	Agreement	Agreement	of Kepps
,	•	****	*****	*****	****	++++	****	****	****	****	****	*****	*********			
Target to Yeacher	. +	. 0	0	; ,; 0	1	0	0	0.	0	0	0	0	• 1	0.000	0 • 000	. 000.0
•		•	•),	0	^	•	0	0.	. 0	0	0	•	0.000	1.000	014
Target to Other Adul 9	. 2 •	. 0	0	10	U	V	•	•				0	• 0		0.000 ^	,
Target to Student	'3 •	0,	0	. 0	0	0	. 0	ò	,	Ó	^ 0	U	• \	,	. /	* • • • • • • • • • • • • • • • • • • •
Target to Tchr & Grp	4	0	0	0~	0	0	0	0	· '0	0	0	0) ## ##	0.000	•
Teacher to Target	5 4	. 0	0	0	0	1	0	0	1	. 0	6	0		500	.500	, 493
			0	0	` `	. 0	0	0	0	0	0	0	• 0		0.000	
Other Adult to Target	t (6.4	, ,	v	·		•	•		•	0	0	0	• 0	•	0.000	****
Student to Target	7 3	0	0	0	0	0	0	0	0	U	_		•	.786	. 875	.724
Teacher to Group	8	0	0	0	0	` 0	0	0	11	0	, 1	.8	• 14	• • • • • •		•
Other Adult to Group	9	0	0	0	0	0	0	0	0	0	0	0.	• · O	ф .ф . ф.	****	₩₩₩₩
	10	• . • 0	0	1	0	0	0	0	1	0	0	0	+ 2	• 0,000	.500	-,014
Student to Group		• •		*	0	0	0	,	3		0	47	* 92	• ,904	. 948	.699
None of the above	11	• 0	1	0 ,	U	U	0.	•					• F	• •	d	
	,	• • • • • • • •	*****	****	• • • • • ·	++++	• • • • •	****	****	••••	++++		· •	•	1	, , , , , , , , , , , , , , , , , , ,
Marginal To	tals	• 0	1	1	1	1	1	1	16	0	1	49.	+ 72 +	• •	(ទីទីថ
r ·		•						****	****	++++	****	****	• • • • • • • • • •	• ,		

685

Category Merginal Agreement: ,382

Cohenis Keppel .611



Table 365 \

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on General Content
Observer 20 Expert 90
School 504 Grade 2
Week A Day 1
WDRSD

1		Cat	egory	chos	en by	0640	rver	20	Marginal	Nominel	Marginal	Light's Extension
Category chosen by Expert 90	Cat.	, 1	2	3	٠,	5	6	' 7	Totals	Agreement	Agreement	of Kappa
•	.		****	****	****	****	++++	*****	****			
`	•	_	•	0	0	, 0	0	0	• 0			
weit	1 +	0	0	U	,		٠.	•	4 3	1.000	1.000	1,000
Transition	2 •	0	3	, 0	0	0	0	0	• ,	•		. 0.000
Panagement	3 +	•	0	0	0	0	0	1	• 1	• ⁷⁸ 0.000	6.000	
4-611-6-A-611-4-1-6	•	•	0.	٥	•	, 0 .	0	0	4	1.000	1.000 .	1.000
Break	\ ^		0 "	٠	•	•			• 0	ф •		-
Nonacademic	. 5 +	0	0	0	0	0	0	0	•	•		(m pres es esta esta €0
Other Academic	6 4	0	0	•	0	. 0	0	0	• 0	+ ·****** +	•	
	-	0	0	. 0	0	0	0	46	46	. 1.000	,979	1,000
None of the Above	7 (•	V	, •					*	• •		ı
	4	*****	****	****	****	****	••••	****	•	•		
. Marginal 1	rotale	0	3	0	4	\ 0	0	47	+ 54	• •	· •	<u>.</u>
· Garage	•	• • • • • • • • •		****	****	· • • • • •	****	*****	*****	•		· •

category Margine; Agreements, ,745

Cohenia Kappal .920

631

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Pace
Observer 20 Expert 90
School 504 Grade 2
Week 4 Day 1
WDRSD

			ory ch		Ma	arginal	Nominal	Marginal	Lightis Extension
Category chosen by Expert. 90	. Cat.	1	. 5	3		Totals,		Agreement	of Kappa
				*	+++·	+++++	•	.s. •	•
	•	****	•		•		•	•	,
Self.	1 +	14	Q	0	•	14	+ 1'.000	.737	1.000
3 6 1 T	•	•	,		•	t	•	0.75	.675
other .	5 +	5	27	O.	+	32	+ .844	.875	•015
•	*	Α.	•	7	+	8	+ .875	.875	, 856
Nelther .	3 +	0	1	'	•	U	+	w.	
	· · · · ·			++++	+++	+++'+++	•		· · · · · ·
	•	* * * * * * *			+		•		
Marginal	Totals +	. 19	58	7	+	54	•	•	
, 3	+				+		+	•	•
	+	+++++	+++++	++++	+++	+++++	• •		9

category Marginal Agreement: .82

Cohen's Kappa! .809

Table 367 ·

Reliability on Grouping
Observer 20 Expert 90
School 504 Grade 2
Week 4 Day 1
WDRSD

	(Category	chos'	en by	obse	erver	50	Marginai	Nominal	Marginal	Light's Extension
Category chosen Category Chosen by Expert 90		, I	5	3	4	5		Totals	Agreement	Agreement	of Kappa
		++++++	++++	++++	* * * * *	++++	+ + + •	********** *	· .	•	006
	1	+ + 15	0	0	1	0	•	16 +	. 938	.889	.906
Individual	•	+	_	•	0	0	, (• 0 •		. 0.000	/
Pair	2	+ 0	0		V	,	•	•			
Small Group (3-8)	3	+ 0 ·	0	0	. 0	, Q	•	,0		,	723
<u>.</u>	4	+ + · 3	. 1	0	26.	70	,	30	.867	,933	,723
Large Group (>8)	7	*	,	0		7		• 8 ·	, 875	.875	<u>,</u> 856
None of the above	5	+ 0	Q ·	U	•	•	•	•	•		•
		++++++	++++	++++	++++	++++	++		♥ ♦	+	•
Marginal Total		18	. 1	0	28	7	*	+ 54	•	•	,
Malatuai iotai		+	++++	++++	++++	+++++	ψ •	* ******	*. ♦	*	4
<u>.</u>		•						•	· .		

Category Marginal Agreement: .674

Cohen's Kappai .813

Reliablinty on Materials
Observer 20 Expert 90
School 504 Grade 2
Week 4 Day 1
WDRSD

Material: Paper/pencil

•	•	Cate	gary c bserve	hosen r 20			Manainni	Lightis Extensian
Category chosen by Expert 90	cat.	1	\$	3′.	Margināi Totais	Nominal Agreement	Marginal Agreement	of Kappa
•		++++++	+++++	+++++	++++++++	:		(,
. Used	1	+ 20	/ o	v 0	+ 29 +	1.000	,935	1.000
Not used	. 5	+ 5 +	15	0 %	+ 17 +	•885	.941	.833
other .	3	+ 0	1	7	8 +	.875	.875	.856
		+ ++++++	+++++	. + + + + +	******	•		*
Marginal Tot	a 8	+ + 31 + 4	1,6	7	+ 54 +	•	~(1
		++++++	+++++	· + + + + + •	• + + + + + + + + + +	•	•	₩
				•	•			633

Category Marginal Agraement: .917

Cohen's Kappa! (.904

692

ERIC
Full Text Provided by ERIC

Table 369

*. Phase IV. - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Learner Moves
Observer 20 Expert 90
1 School 504 Grade 2
Week 4 Day 1
HDRSD

			Cate	BOTY	chos	en by	0680	rvar	50	- Marginal	Nominal	Marginal	Light's Extension(
by Expert 90(Cat.		1	2	3	•	5	6	7	Totals	Agreement	Agreement	of Kappa
	,	*** * *	++ +	* * * * *	++++	****	****	****	++++	******			1.000
Engaged - written	1	▼ ,	8 ,	0	0	0	0	0	0	. 8	1.000	.800	
Engaged - oral	, 2	♦ ()	0	Q.	1	0	*	0	0 -	1	\$0.000·	1.000	019
•		• "	2	0 1	9	0	3	0	0	13	. 692	. 591	,481
Engaged - covert	, 3	الرف	•	•	•	•	•	. 0	0 '	•	• 0.000	. 500	038
Not engaged - Inter	m	<i>f</i>	0	O	0	0		. U	U	•	364	.500	,201
hot engaged - waiting	ng 5	•	0	1	10	3	8	1	. 0	+ + 55	•	·	
Not engaged -off te	8K 6	•	0	0	1	0	0	. 0	0	+ 1	+ 0.000 +	1.000	•,019
None of the above	, 7	*	0	0	1	0	0	0~	7		. 8,75	.875	, 856
	,	****	++4	****		****	++++	****	+++++	******	♦	•	
Marginal T	otels	• •	0	1	22	S.	11,	ì	7	54	♦	₹	
		*	• • • •	· + + + ·	****	****	. + + + +	****	****	• • • • • • • • • • •	* K		, -

Catagory Marginal Agreement1 .752

Cohenis Kappel .472

Table 370

Date: 06-25-79 Program: RELP9S Date File: RELD3

Reilability on Interactions
Observer 20 Expert 90
School 504 Grade 2
Week 4 Day 1
WDRSD

				Cat	egory	chos	en by	0b**	rver :	20			Marginei	Nominai	Marginal	Light's Extension
Category chosen by Expert 90	Cat.	1 .	2	3	4	5	6	.7	8	9	10	11	Totals	Agreement	Agreement	of Kappa
DY CAMELO YO	•	*****		****	****	* * * *	****	++++	****	****	****	• • • • • •	* * * * * * * * * * * * * * * * * * * *		•	
mana A An Tonghan	1 •	. 0	0	0	0	0	0		1	0	0	0	1	0.000	0.000	0.000
Target to Teacher	•	•	0	0	· 0	0	0	0	n	C	0	0		****		*****
Target to Other Adul	•	•		0	0	0	0	0	0	0	0	0	• 0 •	***	0,000	0 2 2 2 2
Target to Student	3	•	0	٠ 0	0	0	0	0	.0	0	0	0	• • • •	*****		***
Target to Tchr & Grp	•	•	g -		·	-	•	0	0	0	0	0	• • •	***	20 40 40 40 2	
Teacher to Target	5 (• 0	0	0	0	0	6	_	0	0	0	0	•	***		***
Other Adult to Targe	t 6	→ 0	0	0	0	0	0	0	·	0	0	0	• 0	· ## ## ## ##	● ** ** *	
Student to Target	7	• 0 •	0	0	0	0	0	0	0	•	·	6		. ,250	.809	,080
Teacher to Group	8	• O	0	ø	O.	0	0	0	8	0	0	•			***	
Other Adult to Group	9	• 0	0	0	0	¢	0	0	0	0	0	0	•		₩₩₩₩	****
Student to Group	10	• 0	0	0	0	0	0	0	0	0	0	0	• 0	, 622	,986	.127
None of the above	11	0	C	1	0	0	0	E	7	0	0	37	+ 45	1064	•••	•
		* ******	****	· • • • •	*****	++++	* + + * * *	****	* * * * *	+ + + + +	****	*****	**********			4
Margina) To	tels	• 0	0	1	0	O	0	0	10	0	0	43	+ 54 ·	•		
		* ******	****	****	****	****	****	****	****	****	****	****	* * * * * * * * * * * *	•	69i	;
$\alpha \alpha^{\pi}$							-									

695

Category Marginel Agreement: .439

Cohen's Keppet .101



Table 371

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on General Content Observer 20 Expert 90 School 504 Grade 2 Week 15 Day 2 WDRSD

			. •									Light's
0		Cat	egory	chos	en by	0680	rver	S 0	Marginal	Nominal	Marginal	Extension of Kappa
Catagory chosen by Expert 90	Cat,	1 4	5	3	•	· 5	6	7	Totals	Agreement	Agreement	G4 KGP-#
•	**	*****	****	***	++++	****	****	*****	•			1.000
	•	•	0	0	0	0	0	0	+ 1	1.000	1.000	/
heit	1 •	•	·	•			•	0		1.000	1.000	A.000
Transition	5 +	0	4	0	0	0	0		♦ .		1.000	1.000
•	3 +	. 0	0	5	0	" 0	0	0	• 5 °	1,000		
Management	•			, 0	. 0	0	. 0	0	• 0	4 *****		
Break	4 +	0	0	V	•	•	_	_	* 0	+ +		44 to \$1 to \$1
Nonacademic	5 +	0	0	0	0	Ŏ	0	, 0	•	•		
•	\ 6 +	0	0	0	0	0	0	0	• 0	4		•
Other Acedemic	, , ,	v			,	0	۵	44	. 44	+ 1.000	1.000	1.000
None of the Above	7 +	0	0	0	0	,	•		•	• ′		
	•	*****	****	****	++++	++++	****	+++++	•	•		
	•		_	5	o	\ 0	Q	44	5 5	•		
Marginal	Totel* *		•	•	•					* *		
	•	*****	****	· • • • • •	****	*****	****	· * * * * * * *	*****			

Category Margine! Agreement: 1,000 Cohen: Kappa: 1,000

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Pace Expert 90 Observer 20 School 504 Grade .2 Week 15 Day 2 WDRSD

	,		C)4-	. · ·		•	· •	
		Cated by Ot	pory o	chosen er 20		•		Lightis
Category chosen by Expert 90	Cat.	* 1	2	3	Marginal Totals	Nominal	Marginal Agreement	of Kappa
•		++++++	++++	++++++	****			,
Self	1	* • 11	0	58	+ 11	1.000	. 917	1.000
other	2	+ + , 1	32	0	+ 33	970	.970	,926
Nelther	3	+ 0	0	10	+ 10	1.000	1.000	1.000
•		++++++	++++	+++++	• • • • • • • • • • • • • • • • • • • 			
Marginal	Total s	+ + 12 +	32	10	+ 54 · ·	"		
•		+ ** + + + +	++++	******	******	•		
		Categor	y Mar	ginal /	Agreementi	, 962	7	693

698

.967

`Table 373

Reliability on Grouping Observer 20 Expert 90 School 504 Grade 2 Week 15 Day 2 WDRSD

								Nominal	Marginal	Light's Extension
Category chosen by Expert 90	Cat.		5	3	. 4	5	Yotals	Agreement	Agreement	of Kappa
•		**** **	++++	++++	++++	++++	+++++++++			
Individual	. 1	+ + 9	0	0	10	0	+ 9 +	1.000	.900	1.000
Pair	5 ·	+ + 1	1	0 4	0	0	+ 2	.500	1.000	. 481
	3	•	0	, 0	1	0	+ 1	0.000	0.000	0.000
Small Group (3-8)	4	÷ 0	*,.	0.	31	0	+ 32	,969	1.000	,923
Large Group (>8) None of the above	€ _k 3	+ 0	** O	0	. 0	10	+ 10	1.000	1.000	1.000
•		+			+++++	+++++	* ********	•	•	•
Marginal	Totals	÷ + 10	2	0	32	10	+ + 54 +	♦ ♦		
A		+++++	++++	++++	+.+ + + + ~	++++	, + + + + + + + + + + + + + + + + + + +	•	,	

Category Marginal Agreement: .780

Cohen's Kappet .905

700

Reliability on Materials Observer 20 Expert 90 School 504 Grade 2 Weak 15 Day 2 WDRSD

Material: Paper/penci!

•		Cat	adory	choser				•
Category chosen by Expert 90	Cat.		observ 2	er 20 3	Marginal Totals	Nominal Agreement	Merginal Agreement	Lightis Extension of Kappa
	•	****	++++	+++++	****			,
Used	1	_	4 ° , 0	0	+ 12 +	1.000	1.000	1.000
Not used	, s	+ 0	35	0	+ 32 +	1.000	1.000	1.000
Other	3	• 0	0	10	10	1.000	1.000	1.000
		· · · · · · · · ·	++++	+++++	******			
Marginal	Totals	+ 12	32	10	+ 54 +			r.
		+++++	****	+++++	+++++++++		•	° ≵

Category Marginal Agraement: 1.000

793

Cohen's Kappa: 1.000



Table 375 \

Reliability on Materials
Observer 20 Expert 90
School 504 Grade 2
Week 15 Day 2
WDRSD

Material: Printed material

, , , , , , , , , , , , , , , , , , , ,			gory (chosen er 20		3	Marginal	Lightis
Category chosen by Expert 90	Cat.			Margina! Totals	Nominal Agreement	Agreement		
	•	++++++	++++	+++++	<i>プー /</i> +++++++ か	•	•	,
U sed	1	+ + 4	0	0	+ + +	1.000	1.000	1.000
Not used		+ + 0	40	0	+ 40 +	1.000	1.000	1.000
Other	3	+ 0	. 0	10 '	+ 10	1.000	1.000	1.000
,		+	, ++++	+++++	++++++++			
Marginal To	ta \$	+ 4	40	10	+ 54	· "		
•		* *****	* * * * *	+++++	+++++++	•		

Category Marginal Agreement: 1.000

Cohen's Kappa: 1,000

704

797

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 20 Expert 90
School 504 Grade 2
Week 15 Day 2
WDRSD

Material: Qther

,				٠		ory c	hoseņ ir 20				Light:s Extension	
	tegory chosen y Expert 90	(cat.		1	2	3	Totals	Agreement	Agreement	of Kappa	
				+ +	+++++	++++	,+.+ + + +	+++++++++	,	; ;	,	
	Used		. 1	+	' 4	0	0	+ 4 , +	1.000	1.000	1.000	
c	Not used	₩.	5	+ +	0	40	0	+ 40 +	1.000	1.000	1.000	
	Other	, J	. 3	+	0	0	. 10	+ ,10 +	1.000	,1.000	1.000	
				+ ++	+++++	· • • • • • •	+++++	+ ++++++++;				
	Marginal	Tot	als	+ +	4	40	10	+ + 54 + + + + + + + + + + + + + + + + +		,		
,	,		,	++	++++	++++	+++++	· + + + + + + + + + + + + + + + + + + +	,			

Category Marginal Agreement: 1.000

Cohen's Kappa: 1,000

706

ERIC

Table 377

Reliability on Learner Moves
Observer 20 Expert 90
School 504 Grade 2
Week 15 Day 2
WDRSD

		Cat	. gory	chos	en by	0b ‡ 0	rver	20	Marginal	Nominal	Marginal	Light's Extension of Keppa
Category chosen by Expert 90	Cat.	1	S	3	•	5	6	7	Totals	Agreement	Agraemant	Gy Norre
	•	*****	****	****	****	****	****	*****	•	•		
	•	_		O	C	0	0	0	. 2	1.000	.667	7.000
Engaged - written	1 +	2	0	•	•	0	0	0	+ 2 ·	500	.500	.491
Engaged - oral	5 +	. 0	1	1	0	•	3	0	+ 18	,722	1.000	,583
Engaged - covert	3 +	1	0	13	0	_	•	0	• . 7	• • •571	.571	,537
Not engaged - Inter	m 4 •	0	0	2	•	0	1	_	. 8	• • .875	.800	.847
Not engaged - waiting	ng 5	0	0	1	0	, 7	0	0	• ,		.875	,497
Not engaged woff te	sk 6	0	0	1	0	2	4	0	•	+ + 1.000	1.000	1.000
None of the above	7	. 0	0	0	0	0	0	10	+ 10 + .	+ 14000		•
	•	• ******	****	****	****	++++	****	***	********	•		
Karginal T	otal#	3	1	16	•	10	8	10	54	• •		
,,_,,,,,,,		• •••••	****	• • • • •	****	****	****	****	*****	•		

Category Marginal Agreement: .773

Date: 06-25-79 Programi RELP95

Reliability on Interactions Observer 20 Expert 90 Grade 2 School 804 Week 15 Day 2 HORSD

Cetegory chosen by Expert 90	Cat.	1	. 2	Cat 3	egory	chos	en by	0b#4	Brver 8	20	10	11	Margine; Totals	Nominal Agreement	Margine! Agrooment	Lightie Extension of Kepps
			_		••••	****			• • • • •	•••		*****		,	•	
	•	^	•	•	0		•	0	0	0	\0 /	O	• 0			
Target to Teacher	1 +	0	0	0	•	•	0	•	•	•	, v	•	•	•		#U. #P. #P. #P.
Target to Other Adult	2 +	0	0	0	0	0	0	0	0	0	e '	0	• 0		# # # #	***************************************
Terget to Student	3 +	0	0	1	0	0	0	0	0	0	0	0		1,000	1.000	1.000
Target to Tehr & Grp	4 +	0	0	0	0	0	0	0	1	0	0	0	1	0.000	0,000	0.000
Teacher to Target	5 +	0	0	0	0	0	. 0	0	0	0	0	0		· • • • • • • • • • • • • • • • • • • •	· # # # # # #	***
Other Adult to Terget	. 6 +	0	0	0	0	0	0 -	0	0	0	o	0	0	· · · · · · · · · · · · · · · · · · ·	***	***
Student to Target	7 +	. 0	0	0	0	0	0	0	. 0	0	0	0	• 0	*****		
Teacher to group	8 +	. 0	0	0	0	0	0	0	10	0	U N	3	13	,769	. 66.7	,680
Other Adult to Group	9 •	· O	0	0	0	0	0	0	0	0	o '.	0	0	· · · · · · · · · · · · · · · · · · ·		
Student to Group	10 +	0	0	0	0	0	0	0	0	0	0	` , 0	0	*****	****	*****
None of the above	11 •	0	0	0	0	0	0	0	•	0	0	3//	39	.697	,974	,654
	* *	*****	****	****	****	****	* * * * *	++++	*****	****	****	*****	• • • • • • • • • •	•		
Marginal Tot	tala •	0	0	1	0	0	0	0	15	0	0	36	84	•		
•	**	*****	****	+++++	****	****	****	***	• • • • •	****	*****	4444	••• • ••	•	•	
204																7.i.0

799

Category Margine! Agreement: #716



Table 379

Phase IV + IGE Evaluation Project...

Descriptive Study - Spring 1978

Reliability on General Content
Observer 20 Expert 90
School 504 Grade 5
Week 15 Day 2
WDRSD

, 	A = A	• •								Nominal	Maráinei	Light's Extension
by Expert 90	Cat.	1	2	3	4	5	6	7	Totals	Agreement	Agreement	of Kappa
·	***	****	****	****	****	****	****	*****	******	>	Mac of	
walt	1 +	0	0	₹ o	Ò	0	0	. 0	0	g. = 17 to 18		ap ap 40 40 (A
Transition	5 + ·	0	0	0	0	0	0	0			9 4 6 4 9	*****
Management	* 3 *	0	0	0	0	0	0	0	0	40 CP CP 49 49	que que des sire full	
Breek	. 4 +	0	0	0	55	. 0	0	0	+ 55	1.000	1.000	1,000
Nonacademic	* 5 *	0	0	0	0	0	0	0		*****	w • • • •	
Other Academic	• • •	Ģ	0	0		0	0		• • •			
None of the Above	* 7 *	0	0	0	0	0	0	116	116	1.000	1.000	1.000
	, *	*****	***	• • • • •		****	****	****	•	•		
, Marginsi T	• otel= •	0	0	0	22	0	0	116	138	•		
	•		· • • • •	* * * * *	••••	****	• • • • •	*****	* ******	•		

Cotegory Merginal Agreement: 1.000

Cohen:s Kappel 1.000

ERIC

> Reliability on Pace Observer 20 Expert 90 School 504 Grade 5 Week 15 Day 2 WDRSD

,			ory coserve	hosen r 20			nai Nominai Margina:	Marginai	Light's Extension	
by Expert 90	Cat.	1 2 3.		3.	Marginal Totals		Agreement	Agreement	of Kappa	
• *	•		++++	++++	++++	++++	++	Č		,
Self	1	+ 86	(0	0	+	88	+	1.000	.946	1.000
other	2	+ · . + · 5	, 0	0	*	5	*· •	0.000	0.000	0.000
Neither	3	+ · · 0	0,	45 .	* *	45	+	1.000	1.000	1.000
	r	+ +++++++	++++	+++++	++++	++++	++			
Marginal To	to \$	+ + 93	0	45	* 11 * *	138	* *			
<i>*</i>		++++++	+++++	+++++	++++	++++	++			1

category Marginal Agreement: .649

Cohen's Kappa! .922

713

Table 381

Reliability on Grouping Observer 20 Expert 90 School 504 Grade 5 Week 15 Day 2 WDRSD

Category chosen Ca			chos	chosen by		erver	20 Marginal	Nominal	Marginai	Light's Extension
Category chosen by Expert 90	Cat:• ₩	1	2	3	4	5	Totals	Agreement	Agreement	of Kappa
		++++++	++++	++++	++++	++++	****	,		
Individual	1	+ 80	5	. 0	0	0	+ 82	,976	.988	,941
Pair	2	+ 1	9	o	0	0	+ io	.900	.909	.891
Small Group (3=8)	3	+ · · · 0	o	1	0	0	+ 1	1.000	1.000	1.000
Large Group (>8)	, 4	+ 0	0	0	0	0	+ 0	• •	des des des que	. es es er (5) es
None of the above	5	+ 0	0	0	0	45	+ 45 + 45	1.000	1,000	1,000
		++++++	++++	++++	+++±	*/++++	+++++++++	•		·
marginal 7	otals	+ 81	11	1	0	45	+ 138	→ →	·	
		*****	· • • • •	++++	****	++++	+++++++++	•		

Category Marginal Agreement: .974

Cohen's Kappa: .960

75.5

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 20 Expert 90
School 904 Grade 5
,Week 15 Day 2
WDRSD

Material: Paper/pencil-

	*		gory (Nominal.	Marginai	Light's Extension
Category chosen by Expert 90	Cat.	1	s	3		argina Totali		Ågreement	Agreement	of Kappa
		, ++++++	· • + + + + •	+++++	+++	+++++	+++		1	
Used	1	+ + 37	5	0	+	42	+	.881	.894	.819
Not used	2	+	41	0	+	51	+	.804	.902	.786
other	3	+ 0	0	45	+ +	45	+	1.000	1.000	. 1.000
0 (110)	_	4 		*****	+	++++	+ +++			
		+		^	+		•		<u>-</u> ,	
Marginal Tot	8 16	+ 47	46	45	+	138	+			
		+++++	+++++	++++	+++	++++	+++			

category Marginal Agreement: .932

717

Cohen's Kappa! .837

Table 383

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

> Reliability on Materials , Observer 20 Expert 90 School 504 Grade 5 Week 15 Day 2 WDRSD

Material: Printed material

				gory (,			Lightis
- · · ·	cat,		_	_	_	N	argina		Nominal	Marginal	extension of Kappa
by Expert 90	#		1	5	3		Totals		Agreement	Agreement	Of Vabba
		++++	+ + + •	+++++	+++++	+++	+++++	++			
		•				4		•	,		
Used	1	*	50	11	0	+	71	+	.845	.873	.719 ·
0360	•	•		••	•	4	3	+	•		
Not used	5	=	2	20	0 '	786	2 2	+	.909	.710	.883
1101 6126	_	+	_	•		4		+	•		
other	3	•	0	0	45	+	45	\rightarrow	1.000	1.000	1.000
	•	+				+		+			
		++++	+++	++++	+++++	+++	+++++	+ +			
		+				+		4			
. Marginal Tota	a 8	•	62	31	45	+	138	+		•	
		+		**		+	1	+		,	
		++++	+++	++++	+++++	++	+++++	++			

category Marginal Agreement: .861

Cohen's Kappal .850

719

718

4

*

ERIC ERIC

Reliability on Materials
Observer 20 Expert 90
School 504 Grade 5
Week 15 Day 2
WDRSD

Material: Other

•					chosen er 20		ì	7.	•	•	Lightis
by Expert 90	Ca	t. #	1	2	· 3		rg na otals		Nominal Agreement	Märginai Agreement	Extension of Kappa
		+	+++++	++++	+++++	* +++	++++	++		•	N
• ,		+				() +		•	. /,	A	•
Used	•	1 +	0	1	0	+	1	÷	0.000	0.000	0.000
Not used	;	5 +	0	.92	0	+	95	+	1.000	s • 989	1.000
other	• ;	3 +	0 .	0	45	÷	45	*	1.000	1~'000	1.000
	,	•	+++++	++++	+++++	++++	++++	→			* *
•		+			5 -7	+		+	•	•	
, Marginal	Totali	B •	0	93	45	+	138	+		•	
18		*	• • • • • • • •		*****			*			
		•			* * * * * * * * * * * * * * * * * * * *	* * * *	* * * * *	₹			
											144

7.0

Category Marginal Agreement: .56

Cohen's Kappa: .984

ERIC

Table 385

Reliability on Materials
Observer 20 Expert 90
School 504 Grade 5
Week 15 Day 2
WDRSD

Materiali Can't Tell

				-	choser er 20	1					Lightis
Category chosen	Cat	•				Mai	gina	1	Nominal	Marginal	Extension
by Expart 90	#		1	5	3	70	otals	3	Agreement	Agreement	of Kappa
		•	+++++	++++	+++++	• + + + + •	++++	++			
		+				•		•			
Used	1	+	0	1	0	+	1	+	0.000	0.000	0.000
		+	1			+		+			
Not used	. 5	+	0	92	Ō.	+	92	+	1.000	.989	1.000
		+				+		+			
other	3	+	0	0	45	+	45	+	1.000	1.000	1.000
		+				+		•			
		+	+++++	++++	+++++	++++	++++	++			
		+				+		•			
Marginal	Totals	•	0	93	45	+ ;	38	•			
		+				+		+			
		+	+++++	++++	+++++	++++	++++	++			

Category Marginal Agraementi .66:

Cohen's Kappai ,984

* Table 386

Reilability on Learner Moves
Observer 20 Expert 90
School 504 Grade 5
Week 15 Day 2
WDR5D

		Get	- gory	chos	en by	Qbse	rver	20	Marginal ·	Nominai	Marginal	Light's Extension
Category chosen by Expert 90	Cat.	1	5	3	4	5	6	7	Totals	Agreement	Agreement	of Kappa
	•	*****	****	• • • • •	****	****	****	****	*****			
Engaged - written	1 4	14	0	1	0	0 '	0	0	. 15	,933	.692	,921
Engaged + oral	2 4	• 0	. 0	0	0	0	0	0	0		0.000	
Engaged - covert	3 4	3	3	43	3	0	0	0	52	.827	,646	.746
Not engaged - Interi	m 4 4	3	0	0	7	0	0	0	10	.700	,909	,674
Not engaged o waitin	•	• 0	0	0	0	0	0	0	0	99 to th en 19		***
Not engaged moss ter	•	• 2	0	. 0	1	0	13	ø	16	.613	,813	.793
None . ' the above	7	• 0	0	<i>。</i> 0	0	0	0	45	45	1.000	1,000	1.000
	•	* *******	* * * * *	++++	****	• • • •	****	****	*******	•		1
Marcinal To	tels	• 22	3	44	11	0	13	45	138	•		•
		* ******	• • • • •	++++	* * * * *	++++	****	*****	+++++	•		

Category Marginal Agraements .708

Cohents Kappel .843



Table 387

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reilability on Interactions
Observer 20 Expert 90
School 504 Grade 5
Week 15 Day 2
HDRSD

Date: 06-25-79 Program: RELP9S Date File: RELD3

				Cat	egory	chos	en by	0686	rver	5 0 .			Merginai	Nominel	Marginal	Light's Extension
LU FURARE OR	cat.	1	2	3	4	5	6	7	8	9	10	11	Totals	Agreement	Agreement	of Keppe
D) Exhauf 10 "		*****	••••		****	*	****	****	*** *	****	++++	• • • • • • •	+++++++			
Tonna in Tanahan	1 +		0	0	0	0		6	0	0	0	0	• 0 •	***	0.000	60 40 40 40
Jarget to Teacher	•		0	0	0	0	0	0	0	0	0		• 0 •	*****		
Target to Other Adult	4	•		0	0	Ō	0	0	0	0	0	0	• 0 •	****	0.000	****
. Target to Student	3 •	•	0	,	·	0		0	0	0	0	0	• • •		**********	##P##
Target to Tchr & Grp	. 4		0	0	·	·		0	0	0	0	0		0.000	0.000	0.000
Teacher to Target	5 (,	0	0	0	0	0		•	. 0	0	•		W 40 (10 TO TO		######
Other Adult to Target	6.	0	0	0	0	0	0	0	0	-	•	•		0.000	0.000	0.000
Student to Target	7	0	0	1	, 0	9	0	0	0	0	0	•	• "		*** *** ***	, w # # # #
Teacher to Group	8	0	0	0	0	0	0	0	0	0	0	0 ,	+ 0		***	
Other Adult to Group	9	0	0	0	0	0	0	0	0	0	Ö	0	+ 0 +) · · · · · · · · · · · · · · · · · · ·	•	### DU
Student to Group	10	0	0	0	0	0	0,	0	0	0,	0	0	• 0			,659
None of the above	11	• 0	0	1	C	0	0	0	0	0	0,	134	+ 135	,993	1,000	• 404
	•	• • • • • • • •	****	****	****	****	• • • • •	****	****	• • • • • ·	• • • • •	***,***	*******	• •		
Marginal Tot		• 1	0	2	0	0	0	0	0	0	• 0	138	136	• •		
		*	• • • • •	****	* * * * *	* + + + •	• + + • •	* * * * * *	****	****	****	*****	******	•		

Category Marginal Agreement1 ,260

Cohenis Kappai .326

726

441

Table 388

Reliability on General Content , Observer 30 Expert 80 School 433 Grade 2 Week 4 Day 4 DMP

		Cat	- 907 y	chos	en by	0644	rver	30	Marginal	Nominel	Marginal	Light's Extension of Kappa
Catagory chosen by Expert 80	Cet.	1	5	3	4	5	6	7	Totals	Agreement	Agreement	Or Kenda
	• •	*****	****		0	0	0	0	+ 0	******	- (47 (B) CO) (B) (B)	· OT (10) (10) (10) (10)
wait	1 +	0	0	0	, ,	0	0	, 0		1.000	,667	1,000
Transition	÷	0	2	0	0	0	0	0	+ 0	•	· (gr. cp. cp. cp. cp. c	\$> 60 40 50 50
Management	3 +	0	0	0	0	0	0	0	• 0	• *******	· (4) (2) (3) (4) (4) (4) (4)	
Break	4	0	0	0	0	0	0	0	+ 0	+		- 46 49 49 49
Nonacademic	5 +	0	0	0	0	0	0	0	+ .0	ф М фффф	· ## ## ## ## #	华德· 斯奇·斯
Other Academic	6 +	0	0	0	a	0	0	51	+ 52		.901	,654
None of the Above	7 +	0			*	••••	****	****	* ******	♦ • ♦		
м Merginal	Totals .	0	3	0	0	0	0	51	• 54 • 54	• •		
	•	*****	****	++++	****	++++	****	*****	******	•		

Category Marginal Agreement: .824

Table 389

1.

Reliability on Pace
Observer 30 Expert 80
School 433 Grade 2
Week 4 Day 4
DMP

Catamany share			gory o	chosen er 30				Lightes
Category chosen by Expert 80	Cat.	1	2	3	Margina Totais			Extension of Kappa
	+ •	****	++++	+++++	+++++	+ +		
Self	1 +	1	0	0	• • 1	+ 1.000	.043	1.000
other	5 +	55	28	,1	+ + 51	+ .549	.549	.063
Neither	3 +	0	0	5	+ 5 +	+ 1.000	.667	1.000
	**	** **	· + + + + +	+++++	* ******	* **		
Marginal T	otals +	23	28	3	+ + 54	* *		
	**	*** **	· • • • • •	****	* ******	+ • + ,		

Category Marginal Agreement: .420

Cohents Kappat .149

Table 330

Reliability on Grouping Observer 30 Expert 80 School 433 Grade 2 Week 4 Day 4 DMP

	A = A	Category	chos	en by	Obs	erver	30 Margina	ı Nominal	Marginal	Light's Extension
Category chosen by Expert 80	Cat.	1	5	3	4	5	Totals	Agreement	Agreement	of Kappa
r		++++++	++,+++	++++	++++	++++	******	••	,	, , , , ,
Individual	1	+ 1	0	o	Ó	0	• 1	÷ 2.000	043	1.000
Pair	2	+ 0	O	0	0	•	* 0	· · · · · · · · · · · · · · · · · · ·	# # # # P #	ab as as ag 44
Small Group (3-8)	3	+ 0	0	0	0	9/	÷ 0	\$ \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$1	@ To to To To	w es to (j) to
Large Group (>8)	4	+ 55 ¹	0	0	28	í	÷ 51	+ ,549	.549	,063
None of the above	5	÷ 0	0	0	0	5	÷ 5	1.000	· .667	1,000
		* ******	++++	++++	++++	****	• • • • • • • • • •	**	1	
Marginal To	tals	÷ 23	0	0	28	3	+ + 54 +	+ + +		
		*****	++++	. + + + + ,	* * * *	****	* * * * * * * * * *	++	•	17 m
				,						731

Category Marginal Agreement; .420

Cohen's Kappa: .149



Table 391

Reliability on Materials
Observer 30 Expert 80
School 433 Grade 2
Week 4 Day 4
DMP

Material: Paper/pencil

Category chosen by Expert 80	Cat.	Cateq by Ob	ory cl serve		Ma	argina Totals		Nominal Agreement	Marginal Agreement	Lightis Extension of Kappa
		, 	+++++	_ + + + + +	+++		• • •			
	· •		****	• • • • •	•		•			
Used	1 +	51	0	1	+	52	+	.981	.981	.654
Not used	2 4	. 0	0	0	+	v	+	~~~~	qo 40 ua qo ≅	
1101 0100	•	•	1		•		+		m	
other	3 4	• 0	0	5	4	2	+	1.000	667	1.000
	4) 		****	~ * 4.4.4.					
	9	,	****	****	•		•			
Marginal 1	rotals	51	0	3	+	54	+			
	•	, ,+++++	++++	+++++	*	+++++	+++			

Category Marginal Agreement! .824

Cohen's Kappa: .791

733



Table 392

Reliability on Learner Hoves
Observer 30 Expert 80
School 433 Grade 2
Week 4 Day 4
DMP

Category chosen by Expert 80 Agreement Agreement of Kapp Agreement of Kapp Agreement of Kapp Agreement of Kapp Agreement 80 Agreement Agreement of Kapp Agreement of Agreement	ı lon	Light	Marginel	Nominal	Marginai		30	rver	0696	en by	chos:	e d'o L A	Cat	•	
Engaged - written 1 + 15 0 1 0 0 0 0 2 0 500 .500 .491 Engaged - oral 2 + 0 1 1 0 0 0 0 0 2 0 .500 .500 .501 .204 Engaged - covert 3 + 2 0 8 0 7 3 1 21 + .381 .571 .204 Not engaged - interim 4 + 1 0 0 2 0 0 0 3 + .667 .667 .664 Not engaged - waiting 5 + 0 0 2 0 6 0 0 8 + .750 .615 .671 Not engaged - off task 6 + 0 0 0 0 0 1 0 1 1 1.000 .200 1.000) P &	of Ker					•	6	5	4	3	2	1	e t	
Engaged - written 1 + 15 0 1 0 0 0 0 2 0 500 .500 .491 Engaged - oral 2 + 0 1 1 0 0 0 0 0 2 1 .381 .571 .204 Engaged - covert 3 + 2 0 8 0 7 3 1 .21 + .381 .571 .204 Not engaged - interim 4 + 1 0 0 2 0 0 0 0 3 + .667 .667 .664 Not engaged - waiting 5 + 0 0 2 0 6 0 0 8 + .750 .615 .671 Not engaged - off task 6 + 0 0 0 0 0 1 0 1 1 1.000 .200 1.000					*******	****	* • • •	***	*** *	++++	****	++++	*****	•	
Engaged - oral 2 0 1 1 0 0 0 0 2 0 500 .500 .491 Engaged - covert 3 2 0 8 0 7 3 1 21 .381 .571 .204 Not engaged - interim 4 + 1 0 0 2 0 0 0 3 .667 .667 Not engaged - waiting 5 0 0 2 0 6 0 0 8 .750 .615 .671 Not engaged - off task 6 + 0 0 0 0 0 1 0 1 1.000 .200 1.000	2 4	, 87	,944	. 692	17	•		1	0	0	1	Q	15	1 +	
Engaged - covert 3 + 2 0 8 0 7 3 1 21 .381 .571 .204 Not engaged - interim 4 + 1 0 0 2 0 0 0 3 .667 .667 Not engaged - waiting 5 + 0 0 2 0 6 0 0 8 .750 .615 .671 Not engaged - waiting 5 + 0 0 0 0 0 1 0 1 1.000 .200 1.000	91	. 4	.500	500	2 4	0		0	0	0	1	1	_	• •	·
Not engaged = linterim 4 + 1 0 0 2 0 0 0 0 3 + .667 .667 .664 Not engaged = waiting 5 + 0 0 2 0 6 0 0 + 8 + .750 .615 .671 Not engaged = off task 6 + 0 0 0 0 0 1 0 + 1 + 1.000 .200 1.000	04	. 2	. 5,71	. 361	21	1		3	7	0	8	0	•	*	
Not engaged = Walting 5 + 0 0 2 0 6 0 0 + 8 + .750 .615 .671 Not engaged = Walting 5 + 0 0 0 0 0 1 0 + 1 + 1.000 .200 1.000 Not engaged = Off task 6 + 0 0 0 0 0 2 + 2 + 1.000 .667 1.000	54	,6	.667	,667	3	0		0	0	-	-	·	1	•	
Not engaged = waiting 5	71 -	, 6	,615	,750	. 8	n .		^	•	-	•	·	•	•	
Not engaged moff task 6 + 0 0 0 2 + 2 + 1,000 .667 1,000	00	1.0	.200	1.000		•		۰	, -	,			0	5 ÷	iot angeged - waiting
	00	1.0		>		,		1	0	0	0	0	0	6 +	ot engaged most task
▼		•••	, 60 /	• 1.000	• 2	2		0	0	0	0	0	0	7 0	svode eff to enor
				•	· · · · · · · · · · · ·	****	++++	****	****	****					
Marginal Totals + 16 1 12 2 13 5 3 + 54 +				♦ ♦	♦ `54 • `54	3		5	13	2	12	1	16		Marginal Tota
**********		•		•	******	****	***	***	****	* * * * *	****	****	· • • • • • • • •	•	

category Marginel Agraement! .595

Cohents Kepps: .541



Table 393

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978 Date: 06-25-79
Program: RELP9S
Date File: RELDR

Reliability on Interactions
Observer 30 Expert 80
School 433 Grade 2
Week 4 Day 4
DMP

					Cate	igory	chose	n by	06841	rver :	30			Herginel	Nominal	Marginal	Light's Extension of Keppa
Category chosen by Expert 80	Cat.		1	2	3	4	5	6	7	8	9	10	11	Totals	Agreement	AGP coment.	W KOPPO
		••••	****	****	****	****	****	****	****	• • • • •	++++	****	****	***********	•		
succes to Tonchar	_	•	0	0	0	0	0	0	0	0	0	0	0	0		****	gy 10) 40 40 45
Target to Teacher	•	•						_	_		0	0	0			(Jan 44) 40 40 40	****
Target to Other Adul	5 7	•	0	0	0	0	0	0	0	0	٠	·	•	•	•	(
		•	0	Ó	0	0	0	0	0	0	0	0	0	• 0			•
Target to Student	•	•	0	0	0	1	."	0	0	0	0	0	1		.500	.500	.491
Target to Tchr & Grp	•	•	V	V	٧	•	·	•					•	• 0			
Teacher to Target	5	•	0	0	0	0	0	0	0	0	0	V	0	• 0		****	***
Other Adult to Targe	nt 6	•	0	0	0	Ó	0	0	0	0	0	0	0		•		
GENER MOOTE IN THE DE		•			_	_	_		0	C	0	0	0	• 0	• •		
Student to Target	7	•	0	0	0	0	0	0	v	•	•			•	; 	,583	.330
	A	*	0	0	0	0	0	0	0	5	0	0	7	+ 12	• • • • • • • • • • • • • • • • • • • •	,,,,,	•
Teacher to Group	·	•	•	•				_	_	_	0	0	0	• 0	· 4 .====	*****	~~~~
Other Adult to Group	p 9	•	0	0	0	0	0	0	0	0	U	v	•	•	•		
		•	0	0	0	0	0	0	0	0	0	0	0	• 0		***	
Student to group	10	•	٧	v	•	•	•	·		_	_	•	38	• •0	. 950	.870	,663
None of the whove	11	•	C	0	0	0	o	0	0	R	0	0	36	*	•		
		+++	* ****	++++	****	****	****	****	++++	****	* * * * *	****		•	•		
Mergine! Y	ota i s	•	0	0	0	1	0	0	0	7	0	0	46	• 54	• •		
				****	****	• • • • •	****	• • • • •	* * * * *	• • • • •	++++	****	****	******	•		

735

Category Marginal Agreements .65%

Conen's Keppel .485

736

* 1 T -

Table 394

Reliability on General Content
Observer 30 Expert 80
Schon; 433 Grade 5
Week 16 Day 2
DMP

		Cat	e gory	chos	en by	0640	rver	30	Marginal	Nominei	Merginel	Light's Extension
Category chosen by Expert 80	cat.	1	8	. 3	•	5	6	7	Totals	Agreement	Agreement	of Kappa
	.			****	****	****	****	*****	*******			
		0	0	0	0	0	0	0	• 0	****	₩₩₩₽₽	m 40 10 10 10
Welt	5 +	٥	2	0	n	0	0	8	•	.500	.500	,489
Transition	•	0	0	0	3	0	0	1	÷ 1	0,000	0.000	0.000
Munagement	3 +	ر	0	0	0	0	0	0	+ 0		0.000	*****
@reak	5 +		0	0	0	0	o	0	• Q	ф инте фе	⊕ ≠ ± ◆ □	den ette den ett. Att
Nonacademic	•		0	0	0	0	C	5	+ 0	•	****	****
Gther Academic	6 +	0	0	0	1	0	0	90	• 91	. ,989	,974	,648
None of the Above	7 +	· · · · · · · · · · · · · · · · · · ·			- -	••••	• • • • •	*****	* ******	• •		
Margina)	Totals	0	5	0	1	0	0	93	+ + 96 +	* * *		
	•	*****	++++	+++ +	++++	****	****	~ + + + * *	*******	•		

Category Merginal Agreement: .370

Cohenis Kappai .49



Reliability on Pace Observer 30 Expert 80 School 433 Grade 5 Week 16 Day 2 DMP

			ory d							Light's
Category chosen	Cat.				M	erzina	8	Nominai	Marginal	Extension
by Expert 80	#	1	S	3	•	Totals	3	Agreement	Agreement	of Kappa
	•	+++++	· + + + +	++++	+++	* 	+++	. •		
	4	•			+		•	. •		
Self	1 +	50	1	0	• ,	~ 21	•	.952	1.000	,939
	4	•			+		•			_
other	2 4	0	69	1	•	70	•	.986	.972	.943
	4	•			*		•			
Neither	3 4	1	2	2	•	5	•	.400	.600	,381
	4	•			+		•			0
	•	***	. + + + + +	++++	+++	++++	+ + +			
	4	•			•		+			
Marginal To	tals 4	21	72	3	♦	96	•			
	4	,			+		+			
	•		+++++	++++	+++	++++	+"++			

Category Marginal Agreement: .857

Cohen's Kappa: .871

Table 396

Reliability on Grouping Observer 30 Expert 80 School 433 Grade 5 Week 16 Day 2 DMP

		ategory	chos	en by	Obse	rver	30 Marginal	Nominal	Marginal	Light's Extension
Category chosen by Expart 80	Cat.	1	5	3	4	5	Totals	Agreement	Agreement	of Kappa
	•	+++++	++++	++++	++++	++++	******	•	ŧ	ŧ.
Individual	1	19	0	0	0	0	+ 19	+ 1.000	.905	1.000
Pair	2 (• 1	1	0	0	0	+ 2	÷ .500	.500	,495
Small Group (3-8)	3 4)	0	1	0	1	+ 5 +	+ + .500	1.000	,489
Large Group (>8)	4 4	•	0	0	68	0	+ 68	+ + 1.000	.986	1.000
None of the above	5	•	0	1	1	2	+ + 5	+ + .400	.600	,381
HOME OF THE BEOVE	•	•					+ +	♦		
		,	•	2	69	3	+ + 96	+		
Marginal To	tals .	+ 21 +	1	<i>E</i> .			•	*		
	•	++++++	+++++	++++	* * * * * *	****	T # # # P P T P # P P	· ▼		

Category Marginal Agreement: .798

Cohents Kappa! .883

Table 397

Fhase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 30 Expert 80
School 433 Grade 5
Week 16 Day 2
DMP

Material: Paper/pencil

-			tegory Obser					Lightis
Category chosen ,	Cat.				Marginal	Nominal	Marginal	Extension
by Expert 80	*		1 2	3	Totals	Agreement	Agreement	of Kappa
		+++++	+++++	+++++	+++++++++	•		
		•			•	.		
Used	1	÷ 4	0 1	0	+ 41	+ .976	1.000	.957
Ç-2-0	•	.	•	•		4 4 3 7 0		,,,,
Not used	2	*	0 49	1	÷ 50	+ •980	.962	,956
140¢ 07.40	J		· -,	•	4 50	4 6900	, , o a	
other	3	▼	1 2	2	+ 5		.600	.381
Other	3	₹		~	* 5	+ •400	* 0 0 0	• 301
		*			•	•		
		* * * * *	*****	+++++	******	*		
		•		_	•	•		
Marginal Tot	0 5	+ 4	1 52	3	+ 96	+		
		+			+	•		
	•	++++	+++++	+++++	**··****	•		

Category Marginal Agreement: .854

Cohen's Kappal .902

7)

Reliability on Materials
Observer 30 Expert 80
School 433 Grade 5
Week 16 Day 2
DMP

Material: Game

Category chosen	Cat.		pory coserve	hosen r 30	Ма	argina Totals		Nominal Agreement	Margina! Agreement	Lightis Extension of Kappa
by Expert 80	Ħ	1	~	3	1	0.013		ABI GEMONE	N. S.	
	•	* * * * * * *	+++++ +	. + + + + +	+++	· + + + + +	++			
	•				+		+			
Used	1 +	2	0	0	4	2	+	1.000	.667	1.000
Used	•	_	•	·	+		+			
Not used	5 +	0	88	1	+	89	+	.989	.989	.820
NOT OSEG		•	••	•	+		+			7
other	3 +	1	2	2	+	5	+	.400	.600	.381
Other	•	•	•	_	•	_	•	• • •		
	· ·	*****	+++++	*****	***	+++++	++			
	· ·	. , , , , ,		• • • • •	•		+			
Marginal	Totals &	3	90	3	•	96	+			
maryinai	10(8)	•	, ,	•	•		+			
	•	*****			+++		++			
	•	****	* * * * * *	, , , , , ,	• • •		•			My A
										745

Category Marginal Agreement: .752

Cohen's Kappa: .676



Table 399

Reliability on Materials
Observer 30 Expert 80
School 433 Grade 5
Week 16 Day 2
DMP

Material: Audio/visual aid

`			gory (, , , , , , , , , , , , , , , , , , ,	Lightis Extension
Category chosen by Expert 80	Cat.	1	5	3		argina Totals		Nominal Agreement	Marginal Agreement	of Kappa
	Œ	+++++	· + + + + ·	+++++	+++	* * * * * *	++ +			
Used	1	+ 0	1	0	+	1	+	0.000	0.000	0.000
Not used	5	+ • 0	89	1	+	90	+	,989	.968	,644
other	3	+ 0	3	2	+	5	+	. 400	.600	.381
		+ ++++++	+++++	++++	* ****	++++	+++			
Marginal To	tals	+ + 0	93	3	+ + +	96	+ +			
		+++++	* * * * * *	+++++	+++	++++	+++			

Category Marginal Agreement: ,523

Cohenis Kappai ,422

Reliability on Materials
Observer 30 Expert 80
School 433 Grade 5
Week 16 Day 2
DMP

Material: Other

				gory c							Lightis
Category chosen	Cate	•	•	2	Q		argina		Nominal	Margi al Agreemant	Extension of Kappa
by Expert 80	#		1	2	A		Totali	•	Agreement	AGI CEM TILL	UT Nappa
		+++	++++	+++++	+++++	++	+++++	+++			
		+				•		+			
Used	1	+	0	0	0	+	0	•		0.000	die des mes die
		+				•		+			
Not Used	2	+	1	89	1	+	91	•	.978	•989	.473
		*				•		•			
other	3	+	0	.3	2	+	5	•	.400	.600	.381
		÷				+		+			
		++1	++++	+++++	+++++	++	++++	. + +			
		+				*		+			
Marginal	Total:	+	1	92	3	+	96	•			
		•				•		+			
		++4	• • • • •	* * * * * *	+++++	· 4· *	++++	b + 4			72.)

category Marginal Agreement: ,530

Cohen's Kappa! .421



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Mailability on Learner Moves
Observer 30 Expert 80
School 433 Grade 5
Week 16 Day 2

	ŧ		Cate	gory	chos	en by	0b=0	rver	30	Marginel	Nominal	Marginal Agreement	Light's Extension of Kappa
PA Exbert 80 Catedota Cycaeu	Cat.		1	2	,3	4	5	6	7	Tota; 8	Agreemant	¥AL 40ma¢	•••
		• • • • • •	***	****	****	++++	****	0	0	+ 12	, ,917	.750	,900
Engaged - written	1	•	11	0	ì	0	0	0	0		1,000	,250	1,000
Engaged - ore!	2	+	0	1	0	0	0	2	1	+ 47	• ,787	,936	,607
Engaged - covert	3	• •	4	1	37	0 3	0	0	0	+ + 5	• • 600	1.000	.578
Not engaged - inter	1 m - 4	+	0	1	,	0	14	0	0	+ + 18	• • ,778	1.000	, 56
Not engaged - wait!		•	0	0	٠ ١	0	1	4	0	÷ 8		.750	,467
hot engaged moff to		•	1). O	0	2	1	0	2	* 5	• 000	.600	,361
None of the above	7	•	0				****	****	****	******	•		
Marginal 1	rotels	ι •	16	4	44	5	16	6	3	* * 96 *	•		
		***	***	++++	****	. + + + +			, , , , , ,	****			

Category Marginal Agraement: .755
Cohente Kappal .648

Table 402

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Date: 06-25-79
Program: REL.P95
Date File: RELD2

Reliability on Interactions
Observer 30 Expert 80
School 433 Grade 5
Week 16 Day 2
DMP

Cata-			Cat	egory	chos	en by	0b#4	rvar	30		•	Marginal	Nominal	Hargina!	Lightis Extension	
Category chosen by Expert 80	Cat.	1	2	3	4	5	6	7	8	9	10	11	Totals	Agreement	Agreement	of Keppa
	•		****	****	****	****	****	****	*****	****	****	• • • • • •	*******			
Target to Teacher	1	0	o	0	0	0	0	0	0	0	0	0			## ## ## ## ##	****
Target to Other Adult	2 4	• 0	0	0	0	Q	0	0	0	0	0	0		***	世界 幸 … 司	gas car car cas gas
Terget to Student	3 4	0	0	2	0	0	ō	ø	0	0	0	0	2	1.000	.400	1,000
Target to Tchr & Grp	4	• 0	0	0	. 0	0	o	0	٥	0	0	0	+ 0	*****	0.000	***
Teacher to Target	5	• 0	0	0	1	0	0	ņ	0	0	0	0	• 1	0.000	0.000	0.000
Other Adult to Target	6 6	• 0	٥	0	0	G	0	0	0	0	0	0	• 0 4	10 May 144 MP		gg) (gyr 1407 970 qua
Student to Warse?	7	• 0	0	O	0	0	0	0	0	0	0	0	• 0		40 40 41 m 40	***
Teacher to Group	8	• • 0	n	0	0	0	o	0	10	0	Đ	9	27	667	,615	. 566
Other Adult to Group	9	• • 0	0	0	6	0	0	0	D	0	9	0	÷ 0	20 gas 40 40 40	ga giu en ser tin	~~~~
Student to Group	10	♦	0	ŋ	0	e	0	'n	0	¢.	0	0	. 0	100 to 500 401 600	the des des des de	****
hone of the above	11	• • 0	0	3	Ú	0	0	0	4	O	0	59	4 66		.971	,636
	•	<u>.</u> 		+ + + + + ·	• • • • • •		· + + + +		••••	• • • • •	* * * * *		*	•		
Marginal To	tale :	a ◆ 0	0	5	1	е	0	0	22	o	0	6.8	. 96	•		
		•	* * * * * *	* * * * * *					* * * * * •	• • • • •	****	+++++	*****) b		ing in
																106

Catagory Marginal Agreement: 4637

Cohenty Kappel .606



Table 403

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on General Cortent
Observer 40 Expert 80
School 440 Grade 5
Week 4 Day 4
DMP

		Cat	19 077	chos	au pa	05:0	rvar	4 0	Marginal	Nominal	Marginal	Light's Extension of Kappa
Gategory chosen by Expert 80	Cat,	1	2	3	4	5	6	7	Totals	Agreement	Agraement	Ol Vabba
					****	++++	****	****	+++++++	•		
	• • •	•••	* * * * *	• • • • •				_	• 6		go (In 16) (III 66)	107) Mr. 400 PM 400
wait	1 +	0	0	0	0	0	0	Ø		•		
***	4	_			0	0	0	0		¥.00a	1,000	1.000
Transition	S +	0	ð	ŋ	V	v	·	v	•	•	_	
	3 +	0	0	0	0	0	0	0	• 0	Man was see us	d'y sign cite des diffé	
Management	3 ₹	•	•	_				_	• 1	1.000	1.000	1.000
Break	4 +	0	0	0	1	0	ð	0	•	•	2 •	
	•		_	•	ņ	0	0	0	. 0	g 20,030 300 300 130	pay (the see the see	Mb 40 Mt 40 Mg
Nonacedemia	5 6	0	0	0	(1	U	•	,	•	4		
	6 +	0	0	0	0	o	e	Ģ	• 0	♦ Martine State 21	600 til 1 der 1866	
Other Academic	•	٠.	-				_		• 87	1.000	1,000	1.000
None of the Above	7 +	0	0	0	Q	0	0	87	4	4		
	•						****	* * * * * *	*****	4		
	* *	* * * 7 * *	, , , , ,	****		, , , , ,			(7	٠		
Marginal 1	* # # # # m	ç	8	n	ì	0	0	BŤ	+ 96	4		
Marginas	स्थरकारण व								• • • • • • • • • • • • • • •	•		
	* *		* * * * *	++++	* * + * *	* * * * 1	+ + + + +	नाकाक्षा	****			

Category Merginal Agresments 1,000

Cohenia Kappas 1,000

Table 404

Reliability on Pace
Observer 40 Expert 80
School 440 Grade 5
Week 4 Day 4
DMP

				gory o		1					Lightis
Category chosen	Cat.	,				M	argin	al	Nominal	Marginal	Extension
by Expert 80	#		1	5	3		Total		Agreement	Agreement	of Kappa
		++	++++	· + + + + 4	++++	+++	++++	+++			
		4				+		•			
5elf	1	+	76	1	0	•	77	+	.987	.987	.938
		+				+		+	• •		-
other	2	+	0	10	0	•	10	+	1.000	.909	1.000
		•		- ·		•		+	- ,		
Neither	3	+	0	0	9	+	9	•	1.000	1.000	1.000
	•	•	•	•	•	4	•			***************************************	
							.	 ▲ de ▲			
		•	, , , , , ,	, , , , , ,	* , * * ,			*			
Marginal To		*	76	11	9	+	96	•			
लवास्थ्याता १६	2 G (1 #		1.0	1 1	7	•	20				
		* · ·						•			
		* *	*****	14444	****	P	* + + + + •	* * *			

Category harginal Agreement! .955

1.5.)

Cohon's Kappat . . 976

Table 405

Reliability on Grouping Observer 40 Expert 80 School 440 Grade 5 Week 4 Day 4 DMP

Category chosen	0	Category	chos	en by	Obse	rver	40 Marginal	Nominal	Marginai	Light's Extension
by Expert 80	Cat	1	5	3	4	5	Totals	Agreement	Agreement	of Kappa
		++++++	·	++++	++++	++++	++++++++++			
Individual	1	+ 76	o	O	1	0	+ 77 +	.987	,987	,938
Palr	5	+ 0	0	0	0	O	÷ 0 +	egy univ (III days days	1917 this (St.) with 1861	>## ## ## ##
Small Group (3=8)	3	+ 0	0	0	0	0	+ 0 +	gger nitte tote vann opte	gav der var van 440	\$1.00 €1.00
Large Group (>8)	4	+ 0	0	Q a	10	0	+ 10 +	1.000	,909	1,000
Nona of the above	5	• • 0	0	0	c	9	+ 9 +	1.000	1.000	1.000
		++++++	+++++	++++	++++	++++	***	, •		
Marginal To	otals	+ + 76 +	n	0	11	9	+ 96	•		
		*****	+++++	++++	++++	++++	****	•		

Category Marginal Agreement: ,945

Cohenis Kappal .970

757

1 ()) ()

Table 406

Phase IV - IRE Evaluation Project
Descriptive Study - Spring 1978

Reliability on Materials
Observer 40 Expert 80
School 440 Grade 5
Week 4 Day 4
DMP

Material: Paper/pencil

			ory coserve						Mangland	Light's Extension
Category chosen by Expert 80	Cat. #	1	2	3		argina Totals		Nominal Agreement	Marginal Agreement	of Kappa
	++		++++	++++	+++	+++++	++			
U se d	1 +	71	2	0	+ +	73	+	.973	.948	.862
Not used	2 +	6	8	C	+ +	14	+	.571	.714	•522
other	3 +	0	0	9	* + +	9	+	1.000	1.000	1.000
	+	+++++	++++	++++	+++	+++++	++			4
Marginai T	otals +	77	10	9	* *	96	+ + +			
	+ •	+++++	· * * * * *	++++	+++	+++++	++			
			≫							75.4

Category Marginal Agreement: #887

Cohen's Karpal .772



Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 40 Expert 80
School 440 Grade 5
Week 4 Day 4
DMP

Materiali Printed material

Category chosen by Expert 80	Cat. #		ory coserve		Má	argina Totali		Nominal Agreement	Marginal Agreement	Lightis Extension of Kappa
	+	+++++	+++++	++++	+++	++++	+++			•
used	+ 1		c	0	+	17	+	1.000	.944	1.000
Not used	5 4		69	n	+	70	+	,986	.986	.949
other .	3 +	. 0	0	9	+	9	+	1.000	1.000	1.000
	•	, + + + + + + .	+++++	++++	+++	++++	+++			
Margina) T	otals •	18	69	9	+ + +	96	+ +	•		
	4	+++++	++++	++++	+++	++++	+++			

category Marginal Agreement1 .977

Cohents Kappat .976

Phase IV - IGE Evaluation Project Descriptive Study - Spring 1978

Reliability on Materials
Observer 40 Expert 80
School 440 Grade 5
Week 4 Day 4
DMP

Material: Other

No.	***								1	
			ory.c	hosen r 40		,			,	Lightis
Category chosen C by Expert [80	at. #	1	. 2	· 3		gina tals		Nominal Agreement	Margina! Agreement	extension of Kappa
			****	+++++	. + + + +	++++	++			٠
• 	7	•		• • • • •	•				•	
Used 🔨	1 +	1	0	0	+	1	*	1.000	1.000	1.000
	. •	<i>"</i>		_	+	٠,	•		1.000	1.000
Not used	\$ +	. 0	86	0	+	86	*	1.000	1.000	* • 000
*	+			_	+	9	•	1 000 1	1.000	1.000
other	3 +	0.	0	9		9	•	1.000	4.000	4,000
	*	 .	11		• • • • • • •					•
•	+ 4	+++++	****	++++1	? ? ? ? ?	***	++			
	•		<i>:</i>		+		+			
Marginal Tota	1 8 +	1	86	9	+	96	+		,	M / · · ·
•	. +				+		+		,	763
	++	+++++	++++	+++++	++++	++++	++	•		,

Category Marginal Agreement: 1.000

Cohen's Kappa! 1.000



Table 409

Reliability on Learner Moves
Observer 40 Expert 80
School 440 Grade 5
Heek 4 Day 4
DMP

Catagory chosen	• • •	Cat	egóry	r choi	sen by	055	Brver 4	0	•	,		Lightin
by Expert 80	Cat.	1	. 2	3	, 4	5	6	7	Margina; Totals	Nomina; Agreement	Marginal Agreement	Extension of Kappa
	,	*******	++++	****	*****	****	*****	++++	******	. ,		
Engaged - weitten	1	• 32	1	0	.0	í,	O	0	34	,941	.791	893
Engaged - orgi	5	• , O·	0	Ô	0	ິ	0>=	0	* · · ·		0.000	` ⊕ = # = #
Engaged - covert	3	• 6	1	10	3	2	2	0	+ 26 +	,385	, 385	,313
hot engaged - interi	n 4	• 0	0	. 0	1	1.	0	0	+ 2 +	.500	.500	,478
Not engaged - waiting	2 5	• ₁ 0	0	0	0	6	0	0	• · · · · •	1.000	462	1.000
Not engaged woff test	¢ 6'	3	0	0	0	3	13		+ 19 +	,684	,789	,626
None of the above	7	0	0	0	0	0	0	9	+ 9 +	1.000	1.000	1,000
.	•	• • • • • • • • •	****	++++	****	****	*****	****	* *********			ŧ
Marginal To	tals	, 43	2	10	•	13	15	9	• • • • • • • • • • • • • • • • • • •	,	,	
	•	******	* *. * *	****	****	****	*****	++++	******			

Category Merginal Agreement: .541

Cohents Keppat .685

Table 410

Reliability on Interactions
Observer 40 Expert 80
School 440 Grade 5
Week 4 Day 4
DMP

Date: 06-25-79
Program: RELP9S
Date: File: RELD2

Category chosen by Expert 80	Cat.			Category chosen by Observer 40									Marginei	Nominal	Herginal	. Lightis Extension
		$\mathbf{J}_{\mathcal{F}}$	2	3	•	5	6	7	8	9	10	11	Totals	Agraement	Agraement	of Kappa
•	- 4	****	****	• • • • •	****	••••	****	*****	***	*****	** *	*****	******	٠	·	
Target to Teacher	1	0	.9	0	0	0	. ,0	•	0	0	0	. 0	• 0 •		0.000	₩₩₩₩₩
Target to Other Adult	5 2 4		√ 0	0	ð	0	0	, 0	9	1	0	' e	1	0.000	1.000	011
Target to Student	3	0	0	0	0	0	0	0	0	0	0	. 2	. 2 .	0.000	0.000	, 0,000
Target to Tchr & Grp		. 0	0	0	0	0	0	ō	0	0	0	0	• 0	192 193 144 149 149 14 14 14 14 14 14 14 14 14 14 14 14 14		
Teacher to Target	ه 4- ₇ 5	. 1	, 0	0	C	3	0	. 0	0	0	0	0		. ,750	.750	.742
Other Adult to Terge	t ₄ , 6 4	0	0	0	0	0	0	0	0	0	. 0	. 0		· (*) (*) ** (*)	****	** ** ** **
Student to Target	. 7	. 0	0	0	0	0	0	0	0	, 0	0	1		0.000	0.000	0.000
Teacher to Group	8 4	. 0	0	0	0	0	. 0	0	0	0 1	0	0.	• 0 •	****		-f
Other Adult to Group	9 4	0	1	0	0	0	. 0	. 0	0	8 A	0	1		.500	,750	, 48¢, ·
Student to Group	10	. 0	0	0	0	G	0	٠ ٥	b	0	0	•0	• 0			*****
None of the above	31 4	. 0	0	0	0 .	0	. 0	0	0	0	0	54	. 84	1.000	,955	1,000
	•	· · * * * * * *	****	• • •,• • •	****	****	****	*****	***	*****	***	*** ***	•••••••	,1		
Merginal To	tals •	1	1	0	0	3	0	0 🖋	0	- 3	0	86	96		•	4
•	, •	· • • • • • • •	**+ ***	•+*••	****	****) +++ ++++		***	• • • • • •	******		•••••		766	

765

Category Marginal Agreements .49

Cohen's Kappel .626

ERIC

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