DOCUMENT RESUME

ED 170 280

SP 014 232

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TITLE

Classroom Teacher Behavior and Instructional

Organization Patterns.

PUB DATE

Apr 79

NOTE

14p.; Paper presented at the Annual Mesting of the

American Educational Research Association (San

Francisco, California, April 8-12, 19); Best copy

available

EDRS PRICE DESCRIPTORS MF01/PC01 Plus Postage.

*Behavior Patterns; *Class Organization; *Classroom

Environment; Classroom Research: *Classroom Techniques; *Coping; Planning; Studen+ Behavior;

Student Teacher Relationship; Teacher **shavior;

Teaching Styles: Time Factors (Learning)

ABSTRACT

The instructional organization patterns used by experienced teachers in coping with classroom environmental demands is described. Observations of teachers in natural settings were conducted using both a self-designed observation schedule and brief narratives to capture the nature of the classroom climate. Results suggest that teachers use organization patterns as extracted for coping with multiple events as well as for structure of patterns are discussed in terms of their implications for teachers. (Author/JD)

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 Classroom Teach r Beh ior and Instructional Organization Patterns

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Much of the research on teaching in the last 20 years has emphasized identifying those teaching behaviors that are relifed to teaching effective; ass. However, the results of these ten such efforts have been somewhat disappointing in that few teaching that its have been noted which consistently relate to student achievement.

ometheless, the efforts of such researchers as Jacks n (1965), Gump 1969), Koumin (1970) and Doyle (1977a) are presented some salients result relative to teacher enganization patterns in planning for the delia of instruction.

"pleast "and "interactive" feaching. Preactive teaching takes place during class periods the fore and after school, during recess and other times we the teacher is ablee in the classroom. Interactive teaching refers to face to-face once term between teachers and students.

and hover (1977b) have explored studies of #9), Koumin (1) s miniature soc. Tystems a Lecological environments. Doyle mairconmental demands to which the teacher it there are many describes schools as having broad custodial must at " . Additionally, " function ...! desinant adminmative patterns wherein teachers are required to see a T of their clients cory day in groups of some 20 to 30 students for designated time periods. ha study of beginning teachers, Doyle (1977a) found the most salient feature of the classroom environment for those teachers were: a) multidimen onality, b) simultaneity and c) unpredictability. In ther words, the traching-learning environment is characterized as a very compex enterprise.

This part reports some of the results of a three year study designed to identify sets of teaching skills necessary to meet the demands of these complex environments. The recearch reported here examined the comprehensive nature of the ultiple functions of the teacher within the classroom. We analyzed seemingly unrelated, isolated events and identified a descriptive set of concepts for the study of classrooms as social systems.

Method

The sequence of data collection followed a typical ethnographic methodology in that, unlike prestructured research designs, the information gathered and theories that emerged were used to direct subsequent data collection.

The data collection sequence included five strategies. Initially, school practitioners were asked to provide descriptive data about teacher classroom functions. Fifty-six experienced teachers, principals, and counselers acted as participant-observers and wrote critical teaching incidents in order to develop our descriptive data base.

The second phase of data collection involved content analysis of the critical incidents. Each of the 250 critical incidents submitted seemed to match another one in some generic sense, and each was categorized according to the teacher function it described. Five teacher function categories resulted: (a) diagnostician, (b) designer, (c) facilitator, (d) manager, and (e) evaluator. An observation system detailing teacher acts within the instructional facilitator and manager roles was developed in order to build a continuous flow of events describing the interactive classroom social system.

In the third phase of data collection we investigated teacher interactive behavior by observing four teachers in two urban elementary (K-5) schools in a small, inner city school district of 3,000 students. This district was organized around four elementary schools, a middle and senior high school. Each of the four teachers involved were given a general explanation of the study. and each agreed to periodic observations for approximately a one month period. These observations occurred during May, 1977 and 1978. Class size in these fourth grades averaged 20-25 students. The four teachers had approximately. 4-6 years teaching experience. Each class operated under a self-contained. structure with the exception of special subjects in art, music and physical education. This school district, describes three classroom teaching-learning models: 1) traditional; 2) open; and 3) modern conventional which is a combination of traditional/open, as is appropriate. Two of the teachers observed in this study had modern conventional classrooms, and the other two taught in open settings. Generally, reading and language skills are taught in the morning and math, social studies and/or science in the afternoon.

To describe teacher be wise In the learning environment we used both self-designed observation so and brief narratives to capture the nature of the lesson observation - Thas the classroom climate. In May, 1977 teachers were observed to the science and social studies. The purrescribe teacher behavior patte poses of these observation $h \approx ce$ we. Since the same observation schethese two subject preas. med with the 1978 data. During May, 1979 utilized, the data were . teachers were obs wed in "ind" stervals for a total of 490 min tes gratice was completed after ear 10over a three week eriod. minute interval in order the flow of events which lad c etik records include teacher behavi. during the observation. C whole groups, as well as withvidua's, under settings with small such as reading, language, mat and teaching in a priety science and social stn "

some familiarity with "" to use the observation as well as actual classcent inter-observer rel

Analysis of the fr We analyzed the quantita which seemed to result ! in the written paragraphs. for revising the observe the next school year, and text variables.

The final phase of with the teachers to di is just beginning and was involve recording one t active phases of teachi

Results

The observers were a second in ethnographic research and each ad and teachers involved. They were to Linea liting it with transcribed field lotes tions of the four teachers. A 100 per ty is attained before the study proceeded.

> tata comprised the fourth phase of the study. a looking for broad patterns of behaver nteractive classroom climates described storing this phase, observers made suggestions The observations were repeated et of data were analyzed across for on-

collection was an informal follow-up ir perceptions of our results. This is ase the focus of future research which will r's activities in both the preactive and in or-

The observation system habled an observer to manage a variety of concepts for the study of the classr a climate. Such concepts were considered context

variables which impact behavior of teachers and pup-The four context variables which emerged as having importance for teams behavior patterns instruct onal group, were: (a) lesson type, (b) subject matter, (c) size and (d tile. Lesson type desc: bes whether a less : is an introduction to a new topic or concept, a continuation of we k cons. -d over several dass Subject matter duration, in a review of previously mastered materi arses of reading, language, roft matics, science and whether a teacher is of instructional group indica social central group, small group or dividual learner. working wit o what day of the instructions. week or time of d Lastly, ti a lesson e cur

nt med context variables have been identified and embed d chers. Waller (1932), for example, suggested a number by several re n classroom interactions. He lewed the classra 315 factors which a rule-boun! - astem in which only certain activities, or lesson types Tlikely to our. I mkin and Bid He (1974) later preposed that lesson ema (or types man be an lyred as systems of roles. Roles, in this sense, patterns of tehavior characteristic of teacher functions and are clos int rrelated. Trexample, our observations illustrated that teacher behadifferent for each of three less in types. One teacher was observed is codining a new sc ence topic, the human corculatory system, and her behavior, w different for this lesson than when she was observed reviewing factor during a social studies unit on housing patterns in diverse climates. the intr luctory lesson, the teacher asked open-ended questions of learners about the resperiences and knowledge of human blood. She accepted all answers. The clim or during this lesson was informal, nois and lighthearted. But reliew lesson, the teacher posed rapid - "e questions that tested during to students recall, and the lesson climate was more formal with an apparent structured rule system. Only one student spoke at a time, and each reciter was called on by the teacher.

Subject matter also proved to have an impact on teacher and pupil behavior. In our observations of fourth grade teachers, we found that sixty-four percent of all behaviors observed were seen during the teaching of reading or language arms lessons. Approximately twenty-one per cent were observed during math, eleven per cent during science and only four per cent during

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social studies. Over 11, over sevents per cent of teacher behaviors observed wire categorized as figilitator role, in those behaviors which involved irections, assiding learners to complete instructional giving instructional - afor ing lea ers. The other thirty per cent were tasks and praising c teachers desched classroom or instructional rules, manager behaviors who on momit red on stwork, organized and distributed directed learners to learning materials at the like. Tat a I summarizes the frequency of teacher behaviors by instruct of role and o lect matter. A distinctive pattern versus manager roles between subjects. is evidenced with reto acilita Table I, the a machers were observed to demonstrate For example, as seen lice as frequently as manager behaviors in reading, facilitator behavior language and math, free litator behaves more than four times as frequently in science and a one to one tatio in mial studies. Thus these teachers apparently provided which werbal structuring when teaching reading, language and math than when the thereat science and social studies. Pherefore, we concluded that subject matter doc affect teacher structuring behavior in the interactive sett.

Insert Tabl I about here

We were also able to identify a third strategy used by teachers to cope with the complexity of the classroom environment. Teachers vary the size of the instructional group they direct! supervise, for a variety of reasons. Gump (1967) and Adams and Biddle (1977) have both explored the influence of instructional group size on teacher and pupil behavior. In the Adams and Biddle study, it was found that more peripheral and noninvolved student groups are present in social studies lessons than in mathematics where more teacher directed central groups exist. Gump indicated that in his third grade study, most of the day was spent in whole-class activities, when a central group exists during most of the lesson. While thirty per cent of the day was spent in whole-group structure. Gump found an additional twenty-five per cent of the day was spent in scatwork activities. Table 2 represents that in our observations we determined that thirty-two per cent of teacher behavior was observed during whole group and fifty-two per cent when teachers were working with individual learners. Analyses of the summary paragraphs written by observers indicated that much of the individual teacher-pupil interactions

occurred when teachers were conitoring pupil seatwork. Moreover, twentysix per ent of individual teacher-pupil interactions were observed during anothered as seventy-one per cent during reading lessons and only one per
cent during social studies. This latter statistic may suggest why Adams
and Biddle found more peripheral, noninvolved groups in social studies
than in mathematics. That is, teachers structured mathematics lessons and
continue by monitored individual pupil behavior to maintain their on-task
involvement. However, during social studies instruction, teachers provided
actionse meture initially and did not monitor the occurrence of noninvolved
pupil behavior.

Insert Table 2 about here

lates that a pader environmental demands mediate teacher performance and establic limits on the range of response options. This ecological model includes the rather conclex system of interrelated context variables we have presented as descriptive of the nature of classrooms and which contribute to cumulative patterns of a acher behavior that more effective teachers develop as coping strategies. Consistent with Doyle's (1977a) findings we suggest that each is develop these coping strategies as attempts to reduce the complexity of the classification.

emerged when we cole sed lesson type, subject matter, and instructional group size data—i examined when certain behaviors occurred. Consequently, the final context variable relates to time or the point in an instructional sequence when an event occurs. What was so glaringly evident relative to time was that each day of the instructional week is strikingly similar to itself, week after week. For example, Monday may be described as a day when teachers organized students into instructional groups, assigned instructional tasks for the whole week, distributed instructional materials and assisted small groups or individual learners with their instructional tasks. However, when we contrasted Monday with the end of the week, Friday tended to be a day when teachers culminated student activities in a whole group context. On Friday, teachers were observed to administer spelling tests, monitor completion of seatwork, collect work-folders containing completed written tasks and organize

various work areas (e.g. student desks, learning centers, reading comper, etc.) in the classroom. Overall, a substantial increase in managerial teacher behavior was witnessed from Monday to Friday. The general teacher behavior pattern was facilitator on Monday and more frequently managerial by Friday. Table 3 shows the percentage of teacher behaviors by role, each item on the observation system within that role and the contrasting pattern from Monday to Friday.

Insert Table 3 about here

Consequently, time appears as a basic organizational unit of planning and action in the classroom. It may be inferred that the instructional week and its planned sequence of teaching learning tasks is apparently used by teachers as a strategy for coping with the multiplicity of required teacher functions and is an integral part of their instructional management patterns.

Discussion

The repeated similarity of each day, week after week, was an interesting phenomenon and seemed worthy of further study. We, therefore, initiated informal interviews with teachers to ascertain whether they were aware of this organization pattern. They generally reported that it was an intuitive response. One said, "it just seems like the thing to do." Another asked, "don't all of us do that?" One teacher, however, explained that it was the easiest way to guarantee that she covered the content she wanted the students to have. This latter response suggested that this teacher consciously planned such a pattern, and did so for a pedagogical reason as well as managerial purposes. That is, not only are such patterns used by teachers as coping strategies, but they have instructional purposes in that they provide a structural model of the content for students and imply manageable learning units of study to learners. Moreover, such instructional management patterns have been described previously by Yinger (1978) in his study of teacher planning and preactive decision making.

In his study, Yinger identified two central aspects of the teacher's planning technology as 1) planning for instructional activities and 2) use of teaching routines.

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Activities were described as the basic structural units for classroom action, and they had an important role in the teacher's planning decisions. Functionally, activities played the role of ecological units of behavior as described by Doyle (1977b). Consequently, activities were defined in Yinger's study as the equivalent of controlled behavior settings wherein general boundaries and guidelines for behavior were established by the teacher through preactive planning.

Routines were seen to function in two ways. First, routinization fixed certain aspects of behavior and thus reduced the number of characteristics of instructional situations that had to be evaluated, decided upon and manipulated. Second, routines increased predictability and reduced complexity of the classroom environment for students, better enabling them to predict the direction an activity was going and what would be expected of them as participants. Furthermore, Yinger concluded that the result was more time was spent on content and less on procedure.

Preliminary results from our interviews with one fourth grade teacher yielded similar results to that of Yinger. Our teacher reported that she first expresses the content to be covered through objectives. Her second stage is to identify pupil activities and teaching procedures which are appropriate for that content and these pupils. In this fashion the teachers creates and controlls the behavior setting through preactive planning.

As reported elsewhere in this paper, routines were manifested in our study through repetitive daily activities for each day of the instructional week. Yinger refers to such as executive planning routines. Also consistent with Yinger's findings the teacher we chose for more in-depth study described two other types of routines. She identified instructional routines wherein established pupil learning behavior patterns are signalled by the implementation of certain types of instructional activities. Secondly, she described management routines which are procedures or expectations for pupil behavior of a more general interactive social nature.

The consistent results of the Yinger study and this one are also compatable with the self reports of teachers survey by Zahorik (1970) and the "think aloud" technique reported by Peterson, Marx and Clark (1978).



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Conclusions

The descri; we findings of this study, although preliminary and tentative, seem consistent with those of several previous studies. Previously cited studies by Gump (1967) and Adams and Biddle (1970) describe the specifics of teacher-pupil behavior in the rule-bound system of the classroom environment.

Similarly, lesson type, subject matter and instructional group size emerged as having importance for teacher behavior in this study.

The results of this study are also consistent with those reported by Jackson (1968), Smith and Geoffrey (1968), Kounin (1970) and Doyle (1977b) in that, more effective experienced teachers develop a repertoire of strategies which enable them to cope with the broad environmental demands of the class-room environment.

Nonetheless, the most salient consistency may be with the Yinger (1978) study with regard to the interrelationship between preactive and interactive teacher decision making. This relationship is the basis for generation of our future research questions.

Such research as reported here should underscore the need to estigate the science of teaching where and when it develops and function teaching in real classrooms. And future efforts must consider the eatiens for teacher education as well as application of resulting theory mechanisms in preparing new teachers and renewing the skills of inservice teachers.

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TABLE I
Percentage of Observed Teacher Behaviors
by Role and Subject Matter

Instructional		Subject			• ,
Role		Reading-Language	Math	Science	Soc. St.
Facilitator Pacilitator		. 45	14	" 9	2
Manager	.,	^ 19	. 7	2	2
% of all behav	ior	64	21	11	4

TABLE 2
Percentage of Observed Teacher Behaviors
Subject Matter and Size of Instructional Group

	Independent	Small (Group	Whole Group	. •
Reading-Language	71	. 98	•	38	•
Mathematics	26	2		21	
Science	2			31.	•
Social Studies	1	-	,	9	
% of all behaviors	. 52	16		32	· ·

TABLE 3

Percentage of Teacher Behaviors by
Instructional Role, Item and Day of the Week

Instructional Role	Days of Week	
Facilitator	Monday	Friday
1. Gives instruc. directions	17.81	17.65
2. Discussing plans	5.48	11.76
3. Discussing progress	2.74	5.88
4. Lecturing	34.25	20.59
<pre>5. Assisting pupil(s) with task</pre>	6.85	-
6. Praising/reinforcing	9.59	5.88
Total	76.72	61.76
Manager		
1. Defining rules	8.22	2.94
2. Directing to act	1.37.	2.95
3. Monitoring seatwork	1.37	2.94
4. Organizing materials	5.47	17.65
5. Taking attendance	6.85	11.76
Total	23.28	38.24