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## ABSTRACT

The purpose of the study was to explore the formation of teachers' expectations of students' academic performance. First-grade teachers were interviewed or asked to respond to questionnaires concerning their pupils, and ranked their students on expected academic performance at three periods in the school year. Teachers rankings of expected performance were highly stable over time. Metropolitan Readiness Test scores were significantly correlated with prior teacher rankings of expected performance. Many student behaviors and characteristics were identified as correlating significantly with teachers' rankings of expected academic performance. [Not available in hard copy due to marginal legibility of original document.] (Author)

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# FORMATION OF TEACHERS' EXPECTATIONS OF

### FIRST GRADE STUDENT'S ACADEMIC PERFORMANCE\*

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Much of the research (Flowers, 1966; Rosenthal and Jacobson 1968; Claiborn, 1969; Jose and Cody, 1971) on teachers' expectations o pupils' academic performance has focused largely on the self-fulfilling ature of such expectations. Many self-fulfilling prophecy studies (Flowe s, 1966; Beez, 1967; Rosenthal and Jacobson, 1968) were based on a resear h paradigm involving the creation of expectations from fictitious student; formation communicated to the teacher by the researcher. The results from studies based on this paradigm have been ambiguous. Published studies b Claiborn (1969), Jose and Cody (1971) and Fleming and Anttonen (1971) have failed to replicate the Rosenthal and Jacobson (1968) findings that teacher expectations created from fictitious student information were self fulfilling Fleming and Anttonen (1971) and Brophy and Good (1972) have sugg sted possible explanations for the effectiveness or lack of effective ess of fictitiously induced expectations.

Whether or not they are given fictitious information, teachers do generate their own expectations of pupil performance. Studies b Palardy (1969), Ebbensen (1968), and Doyle, Hancock and Kifer (1971) hav shown that teacher generated expectations have been found to be accurate or to result in self-fulfilling prophecies. These studies have shown relationship between expectations generated by the teacher and measured pupil achievement.

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while differential teacher expectations for the academic performance of students have been shown to exist and to influence the level of a student's academic achievement (Rosenth') and Jacobson, 1968; Parardy, 1969; Doyle, Hancock and Kifer, 1971', several investigators (R) of the lack of the lack of the lack of the formation of teacher expectations.

### PUEPOSE OF THE STUDY

The purpose of this study was to explore the formation of tacher generated expectations of students' academic performance. Sever taspects of the problem investigated were: 1) The relation between student behaviors and characteristics as perceived by the teacher and the macher's rankings of expected academic performance, 2) The stability over time of teachers' rankings of expected student achievement, 3) The ability of teachers' initial rankings of expected academic performance to predict students' scores on a school readiness test, and the possible intrunce of knowledge of test scores on the second teacher ranking of expected academic.

## METHODS AND PROCEDURES

Subject Sample 74 female first grade teachers in the Hemphis Pul ic School System and the Shelby County School System were subjects in the sudy. Teachers were selected from elementary schools in white, middle ass communities in Memphis or Shelby County; ninety-five percent of he student population in these schools were white. Two-thirds of the total seacher subject population were white; one-third was black.

Procedure. Two experimental designs were used: one group of to chers was requested to respond to an Adjective Description Form, ratin their publis on specified physical, social and academic characteristis; a second group of teachers was asked to ciscuss their pupils in the gely unstructured interviews. All interviews were tape recorded. Both groups of teachers were requested to rank order their pupils on expects academic performance. Data from both groups of teachers were collected a each of three periods in the school year. These data periods were: The first 2 weeks of school prior to administration of the Metropolitan Read ness Test; 1 - 2 weeks after the Metropolitan Readiness Test had been score by the teacher; the end of the first semester.

The use of two experimental designs was intended to ascert. In whether similar or compatible results would be obtained by two different methods. Frequently, the factors influencing the teacher - child relation hip have been investigated by asking teachers to respond to questionnair. Or by conducting highly structured interviews. Thus, the experimenter may be imposing or communicating his own biases or hypotheses to the subjects. The freely structured interviews in the present study were an accempt to control for such influences. Investigators conducting the interviews in the present study were not familiar with previous studies of factors influencing the teacher-pupil relationship and had only the limital information given the teachers concerning the purpose of the study.

### RESULTS AND DISCUSSION

The results will be considered in terms of the 3 aspects o the problem stated in the purpose of the study: I Relation between tudent behaviors and characteristics as perceived by the teacher and the teacher's rankings of expected academic performance.



Table 1 shows the correlations be : ween teachers' ratings of pupils on adjectives from the Adjective Description Form and teach rs' rankings on expected academic achievement for each of three data p riods. Adjective categories relating most highly to expected academic ach evement appear to be specific work-related skills and abilities (reading, ttentiveness, independence in work), and general characteristics or a litudes (maturity, self-control, creativity), which are commonly associate with achievement or success. More general work-oriented behaviors (ne. ness, Industriousness, clarity of speech), as well as social characteridics of puplis (friendliness, helpfulness) are significantly, but more moverately correlated with expected achievement. Correlations between almos all adjective categories and achievement rankings were highly stable a ross repeated samplings, indicating that teachers ordered the relative myortance of the adjectives in predicting academic achievement very early in the school year and were consistent in their beliefs over time. Excent for significant sex differences on conduct, teachers generally percelised the relative importance of behaviors and skills listed on the Adjective Description form to be very similar for both sexes.

Table 2 indicates the categories from interview data which correlated significantly with teachers' rankings of expected academic performance for all 3 data periods. For the interview data, significantly correlated cater gories of independence in work, following directions, and neatness are similar to work skills and abilities listed in the Adjective Description Form. Likewise the category of maturity/immaturity was significantly correlated with expected achievement rankings.

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However, some categories from interview data which are sim ar in content to adjectives on the Adjective Description Form did not have the consistent and highly significant correlations found in results from the Adjective Description Form. Interview categories on physical at tractivemess and size, the child's self-confidence, and his social interctions with other children did not correlate significantly with achievment expectations as highly or as consistently as correlations and stallity coefficients from the Adjective Description Form for related categories.

Interview and adjective form data. The teacher using the adjective form was required to rate each student on each pre-selected adjective category, while the interviewed teacher was free to discuss any aspect of the child. There may be a greater tendency for a halo effect or logical error to influence adjective form ratings. The failure of interviewed teachers to mention certain categories does not necessarily mean that they ind not observed these pupil characteristics, nor that these behaviors is ked importance for the teacher. Although encouraged to do so, the techer may have been hesitant to repeat the same information on consecutive interviews.

Compared to the interview categories, the number of adject wes on the Adjective Description Form is limited. Numerous additional cat gories from Interview data were found to correlate significantly with teach rs1 rankings of expected academic achievement. Additional categories include: Teacher1s knowledge of pupil1s family, her knowledge of the child1s prescribed experiences, and her expectations and knowledge of the Metropolital Readiness Test scores. Several additional categories are from the categories divisions of Family and Social/Emotional Characteristics.

Perhaps, certain of the adjective form categories are more istirctly defined by several of the interview categories. Interview categories may indicate that what the teacher is observing and rating is more overse and complex than data from the Adjective Description Form would indicate. Thus, highly significant correlations, comparable to those from he Adjective form data, are found only when several of these distinct interview categories are added to form sum scores.

It The stability over time of teachers' rankings of expected st dent achievement.

Table 3 shows the correlations between teachers' rankings of expected academic achievement across the 3 data periods. It appears that the stability of rankings of expected academic achievement increased as the year progressed. Stability of rankings for interview and adjective form groups aplears to be similar according to size and significance level of the correlation coefficients.

Although rankings of boys appear to be more stable than for girls, this can be explained by a larger amount of variance for boys, result ng in higher correlation coefficients.

III The ability of teachers' initial rankings of expected achie ement to predict students' scores on a school readiness test.

Table 4 shows the correlations between Metropolitan Readine is Test scores and teachers' rankings of expected academic performance if reach of the three data periods. It appears that teachers' first ranking of expected academic achievement made within the first 7-8 days of scool are quite accurate and are supported at a significant level by score from the Metropolitan Readiness Test, which was administered after the first rankings



tween Metropolitan Readiness Test scores and the second teacher makings of expected achievement are significantly higher (p <.01) than are correlations between the Metropolitan Readiness Test scores and the first teacher rankings. There is no significant difference in correlations between Metropolitan Readiness Test second and third rankings.

the significant differences in correlations of Metropolitan Readiness Test scores and teachers' rankings for periods one and two are solely or promarily due to teachers' knowledge of test scores. Teachers had had more time to observe and interact with pupils in the classroom by period two, and this may have influenced their rankings.

Nevertheless, the stability of correlations between Metropolitan Readiness Test scores and teachers' rankings on Times 2 and 3 would seem to indicate that knowledge of Metropolitan Readiness Test scores had some influence on teacher expectations.

### IMPLICATIONS FOR FURTHER RESEARCH

This research was an exploratory study of factors related to the formation of teachers' expectations of students academic performance. Validity of these results would be strengthened by replication and expansion of this study for similar teacher and student populations. Comparable research might also be done for different grade levels, for classes formed by special ability grouping, and for certain ethnic groups. The God dwin and Sanders study (1969) would suggest that different factors might is related to expected achievement rankings for older children at different grade levels.



Data periods for this research were timed to measure the influence of test sources on the formation of achievement expectations as generated by the teacher. The results strongly suggests that knowledge of test scores influen es expectations. Additional studies might be so timed to measure the influence on expectations of other sources of information about the child with the available to the teacher, such as registration froms, health scords and parent interviews.



Table 1

Correlations of Adjectives from Adjective Description Form with

Teacher Achievement Rankings Across 3 Time Samples

	Time		Time 2		Time 3	
	Boys	Giris	Boys	Girls	Boys	Giris
Very attentive to class procedings/Does not pay attention	.70**	.70 <b>::*</b>	.72**	.71**		
Gets along well with others/Fights, argues, shows aggressize be-						_ <b>,</b>
havior	.21**	<u>.37</u> **			.18#*	.28**
Very self-confident/ Lacks self-confidence	.70**	.65**			.68**	.62**
Active participant, often makes comments or asks						
questions/Very quiet	.50**	.39**	<u>.49**</u>	<u>.39</u> **		
Very obedient/)is-						
obedient, defint	.34**	.45**			.29**	.34**
Has very good self-control/ Restless, hyperactive, can't sit still	.34**	.40**	.34**	.45**		
Cont looking				4-4-40		
Good looking/ Unattractive	.30**	.34**				
Large/Small	.20**	.15*				
Mature/immature	.71**	.71**	.66**	.67**		
Works very well without constant teacher super-vision, follows instructions easily/Does not work well without constant	.75**	.76**			.76 <del>**</del>	.69**
teacher supervision	•/2~~	./0~~			• / 0	•••
industrious, always tries to do his best/Lazy, often doesn't do his best			.56**	.61**		

Table 1
(Continued)

	Tin Boys	e . Girls	Time Boys	Girls	Boy Ime	GIrls
Leader/Follower			.49**	.46**		
Easily understood, speaks very clearly/Very hard to understand (whispers, uses baby talk)			.56**	.48* <del>*</del>		
Has many friends/Has few friends			.54**	.46**		
Very neat/Very messy			.57**	.61**	.51 *	.53**
Best Reader in class/Poor- est Reader in class			.85**	.85**	.36 *	.85**
Very healthy/Frail, not healthy					.37 *	.38**
Very cautious, careful/ Very impulsive					.43 *	.44**
Helpful, assists teacher or other children voluntarily/ Not notably helpful, does not assist teacher or						
children voluntarily					.54 *	.52**
Creative, imaginative/Not notably creative or imaginative					.62 *	.64**
	<del></del>	<del></del>	**************************************			

<sup>\*</sup> p .05
a\* p .01

Lines under pairs of coefficients indicate the following:

Significant difference between sexes for adjective category for given data period at .05 level

Significant difference between sexes for adjective category for given cata period at .01 level

All N's exceed 475



Table 2
Categories from interview Data which Correlated Significant / With
Teachers! Rankings of Expected Achievement Across 3 Data P Flods

	Time 1		Time 2		ine	
	Boys	Girls	Boys	Girls	Bo ;	Girls
Race (1-White, 2-Non-white)	13*	21**	12*	13*		
Family Parents - divorced without remarriage; parent absent						
from home	.02	18**	13*	11	<b>1</b> .	15*
U/G · Negative, Family	11	21**	16**	18**	1 :	15*
Sum - Negative, #20-29 (Parents)	08	18**	10	15*	- 1	14*
Sum - Negative, Family	10	22**	17**	19**	1 :	··•20**
Social/Emotional Mature	-20**	.23≈ <b>*</b>	.19**	.15*	.0	.15*
immature, a baby	39**	38**	24**	29**	1 /*	17**
Sum - Hegative, Social/ Emotional	36**	31**	24**	2 **	1 :	14 <b>*</b>
Attitude/Motivation Does not try, gives up easily	10	12*	05	13*	0	22* <b>*</b>
Classroom Behavior Well behaved	.12*	.10	.13*	.28**	.0	.12*
Sum ~ Negative, Class~ room Behavior	25**	33**	37**	41**	3 :*	~.35**
Readiness for School Ready/prepared for school	.16**	.11	-13*	-09	.1 *	-17**
Has not been to kindergarten	~.15 <b>*</b>	02	.03	.13*	0	12 <b>*</b>
Does not see likenesses/ differences	16**	20**	18**	19**	1 :	11

Table 2
(Continued)

	Tim Boys	Giris	Joys	Girls	Time Boys	<b>ন</b> বং
Readiness for School Poor motor coordination	12*	14%	14*	06	16**	.02
Has good knowledge of outside world	.16**	.09	.20**	.01	00	12*
Sum - Positive, #73~33 (Specific Readiness Skills)	.26**	.08	.25**	.18**	.12*	22**
Sum - Negative, #73-33	22**	32%*	-,30 <del>**</del>	31**	32**	<b>3</b> 3* 1
Sum - Positive, Readiness for School	.34**	.18**	.36**	.33**	.20**	29**
Sum - Negative, Readiness for School	25**	33**	37**	41**	37**	35**
Oral/Verbal Skills Sum - Positive, Oral/ Verbal Skills	.26**	.05	. 08	.15*	.06	15*
Work Related Behavior Does not listen	14*	14*	19**	04	08	10
Shows Independence In work	.08	.22**	.21**	.02	.11	18**
Ability - Child is bright, average, slow (1-bright, 2-average, 3-slow)	15*	10	28**	~.22*	28**	28 <del>*</del> :*
Child may fall, be withdrawn	09	29**	22**	28**	50**	- 48**
Perceptual problem	11	13*	12*	.00	24**	- 08
U/G - Positive	.31**	.25**	.37**	.32**	.27**	23**
U/G - Negative	18**	16**	24**	24**	22**	22**
Sum - Positive, #95-102 (Specific work related behaviors)	.27**	.20+ <sup>-</sup>	.28**	.11	.20**	20**
Sum - Negative, #95-102	31**	27**	18**	14*	~.11	18**
Sum - Positive, #103-107 (Ability Statements)	.26**	. 25**	.31**	.31**	.40**	33**

Table 2 (Continued)

	Time 1	Time 2 Boys Girls	Time 3 Boys Girls
	Time 1 Boys Girls	Boys Girls	Boys Girls
Work Related tor Sum - Negativ 107	30**31**	38**42**	48**50**
Sum - Positiv Work Related Schav or	.45** .41**	.51** .42**	.4%** .45**
Sum - Negativ , Work Related Behav >r	42**41**	43**41**	46**46**
Sum Total - P sitive	.46** .33**	.42** .43**	.31** .40**
Sum Total - N gative	47**49**	49**47**	42**44**

<sup>\*</sup> p < .05 \*\* p < .01

<sup>&</sup>lt;sup>1</sup>All N's exce i 275

Table 3
Sta Ility of Teachers' Rankings of Expected Student Achievement
Across Three Time Samples

		stionnaire		Interview			
	Tim 1-2	Time 2-3	Time 1-3	Time i-2	Time 2-3	Time 1-3	
Boys	69	.82	.64	.68	.86	.60	
Girls	67	.81	.61	.68	.85	.58	

<sup>1</sup> All N's exce ± 250

All r's stat stically significant at p < .01



Table 4

Correlation of MRT Scores and Teacher Rankings of 
Appeted Student Achievement Across Three Time Samples 1

	Questionnaire			Interview				
	TI a I	Time 2	Time 3	Time 1	Time 2	Time 3		
Boys	63**	.80 <b>*</b> *	.75**	.60**	.79**	.72 <b>*</b> *		
Girls	56**	.75**	.71**	.61**	.79**	.78**		

<sup>\*\*</sup> p < .01

<sup>1</sup> A11 N's exce id 250