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AUTHOR Schilling, Deanna E.

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ABSTRACT

Purposes of this study were to (1) investigate the validity of Maslow's Hierarchy of Needs as it applies to young children; (2) determine developmental shifts in expressed motivational needs; (3) gather information concerning the worries and fears of young children, particularly those of low socioeconomic status; and (4) gather data regarding choices and decisions that teachers allow children to make in the classroom. With Maslow's hierarchy of needs as a theoretical frame of reference, 200 children in kindergarten, second grade, and fourth grade were interviewed about what three wishes they would like to have and why; fears and worries, and what they would like to study. Children's responses were recorded by a concealed tape machine. An open-ended questionnaire was used to ask teachers to list choices they allow children to make in their classrooms. Findings, supportive of Maslow's framework, indicated that: (1) expressed physiological and love needs decrease with age; and (2) safety, esteem, and self-actualization needs increase with age. Children expressed similar fears despite age, socioeconomic status, and ability level differences. Teachers reported allowing students to make choices primarily in nonacademic areas. Further study of teacher responses is planned. Appended are summaries of children's wishes, expressed according to grade level and socioeconomic status. Children's responses to questions are also categorized and compared. (BJD)

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Motivation in the Classroom:

A Pilot Study

Deanna E. Schilling

California State University, Fresno

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Running head: Motivation in the Classroom

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Abstract

Recent research has yielded positive correlations between various measures of motivation and academic achievement. This investigation examined factors that might influence student motivation itself. With Maslow's Hierarchy of Needs as a theoretical frame of reference, 200 children in Kindergarten, Grades 2 and 4, were questioned as to what three wishes they would like to have and why; fears and worries; and what they would like to study. A questionnaire asked teachers to list choices they allow children to make in their classrooms. A significant developmental shift was found ($\chi^2(8)=23.78$, p < .01) with expressed physiological and love needs decreasing, and safety, esteem, and self-actualization needs increasing, with age. In general, children expressed similar fears, although there were some age, socioeconomic status, and ability level differences. Study interests were idiosyncratic. Teachers reported allowing students to make choices primarily in non-academic areas.

Motivation in the Classroom: A Pilot Study

What can a teacher do to catch and hold the attention of students? It is an important question, because a number of studies during the past decade have reported positive correlations between time spent on task and academic achievement (see Anderson, 1981; Denham & Lieberman, 1980, for reviews of this literature). It is also, at heart, a motivational question, involving the arousing, sustaining, and direction of human behavior (cf. Cofer & Appley, 1964). There are, of course, numerous theories of motivation. Most point to one or the other factor as the primary explanation of why behavior occurs. The hierarchical needs theory of Abraham Maslow (Maslow, 1954) differs in that it stresses multiple determinants of behavior. According to Maslow, motivational needs fall into five categories which can be placed in a hierarchy. The categories ascend in this order: physiological needs, safety needs (both physical and psychological safety), love needs (both to give and to receive; on a one-to-one basing and as a member of a group), esteem needs (achievement and recognition for that achievement), self-actualization needs (creativity, curiosity, desire for knowledge and world understanding). Maslow proposes that physiological needs must be more or less satisfied before safety needs can sssume priority in motivating behavior; that safety needs must then be satisfied to at least some minimum extent before love needs will come to the fore, and so on. He maintains that there is a developmental aspect

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to this process and that higher-level needs begin to predominate only as individuals reach adulthood.

Most of the research to investigate the validity of Maslow's model has been conducted by industrial psychologists. This reflects the interest employers have in determining, for example, whether employees will produce more or stay on the job longer if they are offered larger pensions, meeting safety level needs, or if they are allowed to assemble an entire product, as opposed to producing just one part, meeting needs for self-actualization. (For a review, see Wahba & Bridwell, 1975.)

Although Maslow's theory is frequently cited by educators, apparently just two studies have examined the validity of the model as it applies to school-age children. Groth and Holbert (1969) asked 10-14-year-old students to write three wishes. Half of these students were identified as having intelligence test scores above 130. The investigators found differences in the need levels represented by the wishes as a function of age, sex, and level of intelligence, but significance tests were not reported. Gnagey (1970) instructed students from seventh grade through the first year of college to rank a number of activities according to how much time and energy they spent on them. The various activities were believed to reflect each of the need levels. Again, there were differences according to age and sex, but no significance tests were conducted.



Statement of the Problem

This study was undertaken with several purposes in mind: (1) To investigate the validity of Maslow's hierarchical theory as it applies to young children. (2) To determine whether there are developmental shifts in expressed motivational needs. (3) To gather information concerning the worries and fears of young children, particularly those of low socioeconomic status (SES) children whose fears have received relatively little attention since the classic studies of Jersild and Holmes (1935).

The opportunity was also taken to gather data regarding the choices and decisions teachers allow in the classroom. Such choices may affect children's feelings of personal power and efficacy and thus have an impact on the esteem needs of children. A question concerning personal interests was a simple attempt to get an indication of those areas about which children are curious.

Subjects and Procedure

Children (50 each in Kindergarten, Grade 2, and Grade 4, half of low- and half of middle-SES; evenly divided as to sex) were questioned as to what three wishes they would like to have, and why; what they worry about or are afraid of; and what they would like to learn more about if they could study anything they wanted. In addition, a sample of 50 fourth-graders (25 male, 25 female) in two classrooms for the mentally gifted and talented were interviewed. Interviews were taped, using a concealed tape recorder, and later transcribed. After removing all data identifying subjects, the wishes were coded, using a

predetermined set of criteria, according to need level. Criteria were developed from data gathered in an earlier study. The child's answer to the question, "Why do you wish..." was considered of prime importance in determining the need level represented. The interviewers, two graduate students in education, reiterated this question if the child's response seemed vague or unclear. Finally, an open-ended questionnaire was mailed to 45 elementary school teachers asking them to list the choices and decisions children are allowed to make in their classrooms.

Results

Since there was a tendency for each subject's answers to be correlated, the data were analyzed in terms of how many subjects at each grade level expressed at least one wish at a given level of Maslow's hierarchy. Also, since there were no significant differences between the percentage of wishes expressed at each level by children in regular fourth grade classrooms and those in fourth grade classes for the gifted and talented, the data from these two groups were combined.

Insert Table 1 about here

Statistical analysis reveals a significant developmental shift $(X^2(8)=23.78, p < .01)$ in types of needs expressed. Physiological and love needs are mentioned most often by kindergarten children and decline by fourth grade. On the other hand, the percentage of children expressing wishes reflecting safety, esteem, and self-actualization



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needs increases with age. There are no significant SES differences, nor are there significant sex differences, with no more than five percentage points separating the male and female subjects at any point.

The most frequently expressed wishes at the physiological level are for toys, bicycles, food, and houses. (See Appendixes A-G.) At the safety level, wishes are for various kinds of protection from robbers, strangers and siblings; for money and jobs "so I won't be poor"; and for good health. At the love level, children wish for pets, siblings, friends, and gifts to give others. At the esteem level, answers are largely idiosyncratic, although several wish for items (e.g., new clothing) so that others will not make fun of them; for success in competitive situations; and for more control and independence by having their own room, house, T.V., or "doing anything I want." Finally, at the self-actualization level, children wish for art materials, knowledge about different kinds of careers, and travel to "see places I've never seen."

The responses to the questions, "What do you worry about? What are you afraid of?" are remarkably similar. (See Appendixes H-K.) Low-and middle-SES children in Kindergarten and Grade 2, as well as the gifted and talented fourth graders, most frequently mention fears about the supernatural: witches, ghosts, the dark. Fourth graders in regular classrooms most often mention wild animals and "bugs" (spiders, worms). Low-SES children of all ages consistently rank "dogs" as a top fear, while more middle-SES children rank high concerns about being injured



or sick (fourth graders) or having pets get hurt (second graders).

Mentioned by all groups are concerns about family members being hurt or being personally hurt through the violent acts of others. The gifted fourth graders are unique in worrying about "getting behind" in school-work or tests and grades. Since there is no overlap in the children responding in these two categories, a total of 45% of the gifted sample expressed school-related concerns, which are mentioned by only four of the 150 students in regular classrooms. Sex differences in reported fears and worries are negligible.

Unlike the clustered responses found in the data on fears and worries, the children's responses to the question concerning what they would like to study are largely individual. (See Appendixes L-N.) The typical first replies to the question revolve around traditional school subjects—math, reading, science. Once past these subjects, however, answers are almost entirely unique: children want to know more about jogging, magic tricks, nutrition, "how to be Wonder Woman." The gifted and talented students do express a greater interest in languages and other cultures.

Teachers respond with a variety of answers concerning the choices and decisions they allow children to make in their classrooms. However of the 21 most often-mentioned choices, only two seem to involve academic curriculum: choice of topics/assignments, and learning centers, although choices during creative writing/speaking might also be considered to fall into this category.

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Insert Table 2 about here

Discussion and Conclusion

The results are generally supportive of Maslow's hierarchical framework, with the exception of the reversal of love and safety needs, i.e., wishes indicative of safety level needs continue to increase in frequency, while wishes indicative of love needs are showing some decline. The findings support the notion that children have a number of motivational needs, of which the desire for knowledge is just one. They also indicate that a physiologically stimulating and loving environment is an appropriate one for kindergarteners, as traditionally thought, but that such an environment would be welcomed by fourth graders as well.

It should be noted that in analyzing the data, the importance, for coding purposes, of asking the children why they wished for certain things was rapidly made clear. For example, many children said they wished they had "a lot of money." When asked why, however, they responded in a variety of ways: to buy food (physiological); so they would never be poor (safety); to buy their mother a present (love); to buy nice clothes "so people won't make fun of me" (esteem); to travel and explore the world (self-actualization). It is realized that one could continue to ask "why" following each response that the child gives until reaching some ultimate, unanswerable "why". The



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decision was made to code the child's first response to this question. This is, at least, a step beyond the method most commonly used of assigning subject responses to categories according to certain a priori assumptions of the investigators. Expressed desires for money, for example, are usually considered to reflect only safety level needs.

The fears of low- and middle-SES children are surprisingly similar, given the manifest differences in their environments. The biggest difference found involved the low-SES children's fear of dogs, a fear apparently based on a number of actual, unpleasant experiences, such as being bitten or chased, or having to undergo rabies inoculations, judging from spontaneous remarks. Also surprising was the extent to which the results paralleled those obtained 30-40 years ago, despite large societal changes, such as the increases in divorce and crime rates. Finally, the fact that almost half of the gifted sample report school-related worries raises the question of whether too much pressure to achieve is being placed on these children, either by themselves or others.

Most fears and worries are similar among children, and most are in early evidence. This suggests the importance, from a humane as well as a pedagogical view (since most individuals are fascinated by what frightens them), of incorporating subjects about which children are fearful or anxious into the curriculum. Teaching common sense rules of behavior around dogs might alleviate some of the fears children have. At the same time, student interest in the topic could

be used as a basis for oral language, creative written work, art and music, even mathematics (How many centimeters long is the tail?).

Children invariably responded with traditional school subjects when asked what they would like to study or know more about. In fact, it took some probing before they began to express interests in non-traditional subjects. This may reflect the setting in which the interview took place of what the children believed the interviewer would like to hear. Or, more seriously, it may reflect a belief on the part of children that what they are interested in is not a legitimate subject of study. In any event, the uniqueness of the responses to the questions underlines the importance of leaving some room for individualization in the classroom.

The teacher responses concerning choices and decisions they allow children to make were, frankly, a surprise. The fact that a majority regard a child's misbehavior as resulting from conscious choice would seem to have a number of implications in terms of the way such individuals would approach discipline, classroom management and related matters. Less unexpected, but still somewhat surprising, were the relatively few substantive choices allowed by the teachers responding. Recent research has yielded results that indicate, "People... are happier, healthier, more active, solve problems better, and feel less stress when they are given choice and control" (Seligman & Miller, 1979, pp. 367-368). An on-going study by the author is, therefore, taking a closer look at the choices allowed by teachers in the



classroom. Other questions being examined are: What do teachers see themselves as doing to engage and sustain the attention of students? What do observers perceive? What motivational needs are met by these techniques? What is the match between the expressed needs of children and the motivational techniques used by teachers?

It is recognized that these are relatively general, unsophisticated questions, but the area of motivation has long existed in a forgotten crack between the fields of education and psychology. Research concerning the relationship of such motivational measures as on-task time to student achievement, as well as recurrent criticism concerning the lack of relevance of today's schools, emphasize the importance of closing this gap.

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Number and Percentage of Subjects at Each Grade Level Who Expressed at Least One Wish at a Given Level of Maslow's Hierarchy

Table 1

i i	· · · · · · · · · · · · · · · · · · ·			Grade			
Leve1	,	 K		2 ,			4
Physiological	39 ^a	(78%)	37	(74%)	;	58,	(58%)
Safety ,	4	(8%)	15	(30%)		46	(46%)
Love	31	(62%)	23	(46%)	1	5 3	(53%)
_ Esteem ;	6	(12%)	12	(24%)		29	(29%)
Self-actualization	15	(30%)	15	(30%)		38	(38%)



 $[\]frac{a}{n}$ = 200 (50 at Kindergarten and Grade 2 levels; 100 at Grade 4 level).

^{*} $\chi^2(8) = 23.78, \bar{p} < .01)$.

Table 2

Choices and Decisions Elementary Teachers Report Allowing Children to Make in Their Classrooms

-	•	Number of Teachers
;		Reporting
· 1.	Obey rules or not	23
2.	Who to sit with, partners, teams	21
3.	Art choices	19
4.	Free time choices	17
5.	Library books	15
6.	P.E. activity/equipment	13
7.	Where to sit	13
8.	Choose officers/captains	12 ,
9.	Choose topics/assignments	12
10.	Choose record/song/story	11
11:	Learning centers	. 8
12.	Which toys/games	. 7
13.	Extra work	ē
14.	What to share	6
15.	Whether to participate	<u></u> 6
16.	Creative writing/speaking	6 ;
17.	Work/not work	_, 5
18.	When to work	5
19	What food prepare/eat	5 4
20.	Prizes/rewards	4
21.,	Take paperwork home	4

Note. M number of choices listed by teachers = 7.72. Range = 1-17.

ä Thirty-nine of 45 teachers returned questionnaire.

APPENDIX A

SUMMARY OF WISHES EXPRESSED BY KINDERGARTEN CHILDREN

OF LOW SOCIOECONOMIC STATUS 1

PHYSTOLOGICAL	#2 #	SAFÉTY	FOAE	#	ESTEEM	#	SELF-ACT.	#
Ioys and games	20	Ñone	Pets	i. 8	My own house	11	Art materials	4
Food	13.		Brothers '		Fingernail polish		Shoot baskets	1
Bicycle	5		and sisters	6	, look pretty	1	Be a doctor	1
Bicycle Carto get basic	· • -		Gifts to		A pretty house	İ	Batman costume	
. items ·	? 2	,	give	,3	Be grown upact		to pretend	1
Purse	1 .		Toys to	•	like a big boy;	•	Bikeride all	
Snowman	1		play with		. know how to talk	1	around	İ
Christmas (for	•	•	people	2		4	•	
toys)	1		Daddy back					•
Plant	; 1		from	_	_ 1		•	
			Germany	1:	. 1	~	· · · · · · · · · · · · · · · · · · ·	
		•	Phone to		· · · · · · · · · · · · · · · · · · ·		::	
		,	tālk to) >			. 4
			somebody	1				
			Somebouy	1				

 $¹_{N} = \frac{1}{26} (13 \text{ M}; 13 \text{ F})$



Number of subjects expressing at least one wish at this level.

APPENDIX B

SUMMARY OF WISHES EXPRESSED BY KINDERGARTEN CHILDREN

OF MIDDLE SOCIOECONOMIC STATUS 1

	🍝			•			j	. ?	
PHYSIOLOGICAL 7	<u> </u>	SAFETY	· <u>#</u>	FOÁE	<u>#</u> .	ESTEEM	#	SELF-ACT.	#\
Toys	-13	Boxing gloves		Pets	j 1 5	· Be older so		Art materials	4
Bicycle	≯ 6	chase strangers		Gifts to give	5	can be in	-	Flowersthey	
Amusement park		out of house	İ	Baby to hold	Ź	first gradē	1	are pretty	2
rides	Ź	Be a bulldog and	•_	Doggie back		Bē Jēsusdo		Learn about	
Eandy	. 2	stop_people -	<i>.</i> .	from heaven	1	stuff like		pets	2
Horse to ride	` į	stealing things	1	My_own_house		magic	1	Learn calen-	•
Motorcycle	· 1	Ladybuqfor		for friends		Be kingdo		<pre>5 dar</pre>	1
Watch cartoons	1	good luck	· 1	to live there	1	anything		How to be a	
House to play in	1		$\sqrt{1}$	Live in Madera		I want	1	teacher	
Typewriter	, 1	, p. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	-	friends there	.1			want to be	
Desk	1			Wish for Daddy	_			smart	1
W W W 11	. •			to come back	1			·	

 $¹_{N} = 24(12, M; M2F)$

²Number of subjects expressing at least one wish at this level.

APPENDIX C

SUMMARY OF WISHES EXPRESSED BY SECOND GRADE CHILDREN

OF LOW SOCIOECONOMIC STATUS

		á						•	
PHYSIOLOGICAL	#2	SAFETY	. #	LOVE	#	ESTEEM &	#	SELF-ACT.	#
House Bicycle Toys Food Minibike, moped, motorcycle Swimming pool Clothing Skates Money to buy basic items Car (to get groceries) Purse	# 6543 3222 2 1	Money (won't get poor) Strongest man in world-don't have to worry House people won't break in Brother who won't hit me Dog for protection	# 5 1 1	Gifts Pets to care for Friends Get married Pet shop- love animals (Dead) uncle come back alive Visit rela- tives Sisters and brothers	# :9 :3:2:1 1 :1 1	New houseours is junky, etc. Bikepeople tease me because I don't have one	# :3	Carto go anywhere I want to go To be football player To be a doctor and learn how to do every- thing Mathbooks to work in To draw good Go to Disney- land (never been) Colored pens	# 8 1 1 1
14	1	•		,				Claymake stuff	ł
•				r .					-

 $^{^{1}}$ N = 2 6 (13 M; 13F) .

²Number of subjects expressing at least one wish at this level.

APPENDIX D

SUMMARY OF WISHES EXPRESSED BY SECOND GRADE CHILDREN

OF MIDDLE SOCIOECONOMIC STATUS 1

PHYSTOLOGICAL	<u>#</u> 2	SAFETY	<u>#</u> .	LOVE	# #	<u>ESTEEM</u>	#	<u>SELF-ACT</u>
Bicycle Toys Bed Clubhouse House Motorcycle, dirtbike Clothes Pool Hawaii, swim all day Car Candy Farmto play Horseto ride Guitar Desk Bike pedal Disneylandrides	77332 222 111111111111111111111111111111	Lots of toys sister keeps breaking. Lots of money. Good job Toy gunshoot burglars Mom get well Money to pay off house	2 1 1 1	Pets See my Dad Car (dune buggy) for wife and kids Help Mom Mom get married Lots of friends Bunkbedsso friends don't sleep on floor Mgr. wouldn't make cats be on leashes	2 1 1 1	Quit school Nice houseours isn't very nice T.V. of own Own roombrother cries 'Grown up enough to help Dad Own roomsister messes up A different name A housejust for me A dressto look pretty	1 1 1 1 1	Drawing pad Scientist or artist Be a policeman Be a singer Gardengrow things
Go'to concert like singing	1,					Ć.		*e

 $^{^{1}}N = 24 (12, 1; 12F)$

Number of subjects expressing at least one wish at this level.

APPENDIX E

SUMMARY OF WISHES EXPRESSED BY FOURTH GRADE CHILDREN OF LOW SOCIDECONOMIC STATUS 1

e e		1				,			
PHYSIOLOGICAL	<u>#</u> 2	SAFETY	#	LOVE	#	ESTEEM	#	SELF-ACT.	<u>#</u>
_ Toys	- 5	Money	9	Gifts	<u>-</u> 5	New clotheswear		Car, motorcycle	
House	1 4	Two bikesin		Pets	4	to school	1	get places fast	_
Lovebug,		case one got		Be with		Own room	Ī	I've never seen	7
minibikē,		_messed_up	1	friends	2	Learn better	_	Be a teacher	2
go-cart	4	Dog to protect	1	Нарру		don't learn that		Be a doctor	2
Bicyclē	3	Stay alive		fāmilÿ	1	_good	1	Coach team	Ī
Carto get	-	forever	1	-	_	Bēst scientist	•	Have science lab./	
basic items	1	Family stay	•)		in the world	1	and make stuff	1
Swimming pool	1	älive	1	- ħ			•	Travel around	•
Skates	1	House (people	•		-			world	1
Car	1.	are stripping			•	in the second		Math' books	1
Big yard	1.	his house)	1					Spelling books	Ī
Clothes	1		•			÷ V		Books about	•
01000	•					ï		president	1
					,			Whole library to	-
			•					self	i
·								Art materials	Ī
		¥		· ·		Ψ F		Live by selfsee	Ī
				,				if could do it	İ
				•				Get education	Ī
					•			New clothesold	-
. •			7	,		,		ones boring)	i
		•						Collegelike	-
								school	1
	, i						•	To; be a singer	<u> </u>
,		•				<u>~</u>		have capabilities	1
-							•	Work in store	1
To - 42 /44 10-	1445					•		* · ·	

 $^{^{1}}$ N = 26 (13 M; 13F) 2 Number of subjects expressing at least one wish at this level.



APPENDIX F

SUMMARY OF WISHES EXPRESSED BY FOURTH GRADE CHILDREN

OF MIDDLE SOCIOECONOMIC STATUS 1

,	41 9 8	-) +	÷			
PHYSIOLOGICAL	2	SAFETY	#	LOVE	# • #	ESTEEM	#	SELF-ACT.	į
Bicycle House Money to buy things I need Pool Dirt bike/ motorbike Baseball equip- ment Baseball tickets Car Gun Magic Mtn rides Miniature golf Skates and outfit	 5 3 2 1 1 1 1 	Money to save Dad a job getting fired Not get sick Family not getting sick Not be late to school No brothers beat me up No more crime World neater no fights	1 1 1 1 1 1	See friend who moved; not have to move Pets Gifts to give Have more friends Dog still alive Be Peter's girlfriend Someone to talk to	5 5 2 1 1	Get out of school Hit balls so kids wouldn't make fun Win all games Race cars/get sponsors My own bedroom Race motorcycle Be better in math Be 21do any- thing Have birthday every month Straight A's never have Be in Olympics		Travel Skate lessons Carsto drive around Put models together Draw BB gun practice shooting Art materials	2 1 1 1 1
		•							

 $¹_{N} = \overline{24} (12 \text{ M}; 12 \text{ F})$

Number of subjects expressing at least one wish at this level.

APPENDIX G.

SUMMARY OF WISHES EXPRESSED BY

GIFTED FOURTH GRADERS 1

PHYSIOLOGICAL PHYSIOLOGICAL	<u>#</u> 2	SÄFETŸ	<u> </u>	LOVE	#	ESTEEM	#	SELF-ACT.	· #
House Toys	7 5	Sibling who won't pick	, b i	Pet More friends	15 7	Everyone to know who I am	2 2 2	Givé money to poor	2
Bicycle	4	fights	7	Gifts	4	Not work hard	2	Live where	ā
Car	3	Money	6	See_old_		Do_wḥat I want	_	its pretty	2
Motorcycle	3 2 2	Good health	4	friends	2	to do	2	Travelwould	
Food	. 5	Be happy	3	See relatives	2	Get good grades	2	be interesting	1
Things for	_	Sick people		Have family		Have own room	1	Better piano -	
house	2	get well	3	together	2	Go anywhere I		r player	1
Stereo		Get a good job	2	Dad come back	1	want	1	Dancer	1
300100	2	Go to heaven	2	Have Mom home	1	Play football		Better in gym-	
Baseball cards	2	No bad grades	1.	Kids of own	1	good in compe-		nastics	1.
Dirt bike	1	Not get in		Sister come		tition	1	Veterinarian	1
Skateboard	1	trouble	1	home	1	Break bad		Good in sports	1
Cabin	1	No accidents	1	Things for pet	1	habits	1	Make models	Ì
Tree house	İ	Not die	1:	To be liked	1	Be on the Lakers	1.	Nobody to starve	1
Airplane	1	Family problems		A brother	1	Win State cup	1	Pilot	1
Bed	1	go away	1	A wife	1	Get more educa-		Major in	
Vacation	1	Not get mugged .	1			tion than		_computers /	1
"To play"	1	No air pollution	1			father 7	1	Do experiments	1
. •		No inflation	1			Brainscan't	_	Read math books	1
ā	•	Wish bad things	-	_	•	learn very good	1	Doctor	1
•		go away	1	•		Have own tent	1	Carto explore	1
		Not have child-	_			Be a bachelor			
		ren of own				do more things	1	1	
		with problems	1						

 $¹_{N} = 50 (25 \text{ M}; 25 \text{F})$

²Number of subjects expressing at least one wish at this level.

APPENDIX R

QUESTIONS: IS THERE ANYTHING YOU ARE SCARED OF? WHY? DO YOU EVER WORRY ABOUT ANYTHING? WHY?

SAMPLE: 78 CHILDREN (39M; 39F) OF LOWER SOCIOECONOMIC STATUS

	•		•				
EA1	EGORIES	KDGTN.	(13M;13F)	2ND (13	BM;13F)	4TH (1	3M;13F)
ī.	Dark, supernatural, dreams, someone scaring you	$\bar{18}^{\bar{1}}$	≆ 1 2	13	#1	- -	٠
2.	Wild animals, snakes, spiders, worms, bugs	ĪŌ	#2	6	•	15	#i _
3.	Dogs	8 ;	#3	9	#2	, 1 4	#2
4.	Fights, getting hurt or killed by others	4	े । 	;	#2	6,	
5.	Family member hurt, sick, dying, working too hard	4		3		11	#3 s
6 .	Drowning	2	•	-		-	
$\bar{7}$.	Robbers, stealing	2		i		1.1	v.
8.	Separation from others ;	2		-		2	
9.	Spanking	2	•	4.		1	
10.	Fires	1		3		1	
ii.	T.V.; movies	; 1		_3 	Ī	2	
12:	Tornados; earthquakes	1		Ţ		=	
13:	Needle (injection)	1		-		=	
14:	Pet missing or hurt	-		$\bar{3}$		=	
15.	Run over by car	=		ĺ			
16:	Cats	_	•	=	<u>-</u>	ì	
17:	Bad eyesight	<u>-</u>		, =	Ä	İ>	
18.	Classroom tests	_		<u>=</u>		i	•
1 _{Ni}	hor of children expressing	this fa	ar or worry	7	•		

Number of children expressing this fear or worry.
Four percent of the low-SES children reported no fears or worries.

² Rank:



APPENDIX I

QUESTIONS: IS THERE ANYTHING YOU ARE SCARED OF? WHY?
DO YOU EWER WORRY ABOUT ANYTHING? WHY?

SAMPLE: 72 CHILDREN (36M; 36F) OF MIDDLE SOCIOECONOMIC STATUS

EGORIES	KD IN.	(12M;12F)	21	ID (12	M;12F)	4TH (12	M;12F)
Dark, supernatural, dreams, someone scaring you	5 ¹	_{#1} 2	•	8	# 1	3	
Wild animals, snakes, spiders, worms, bugs	ã	# 3		ã		9	#1
Dogs	- :			-,		4	
Fights, getting hurt or killed by others	· _	i		1		5	#2
Family member hurt, sick, dying, working too hard	5	, ; #1 ;		8	; #1	5	#2
Robbers, stealing	2	;	-	1		īį	
Separation from others	:··1			3 '		· - ī	
Spanking; in trouble	-	_		Ī	,	3	,
T.V.; movies	Ī	•	•	=		, 2	•
Needle (injection)	1			=	ì	Ç., -	
Pet missing or hurt	2	•	** •	7	#3	2	• ·
Bun over by car	= = = =		·• .	-		1	,
Classroom tests	<u>.</u>	•	•	2	•	3'	
Self hurt or dying	i ;			i		<u>5</u> .	#2
	Dark, supernatural, dreams, someone scaring you Wild animals, snakes, spiders, worms, bugs Dogs Fights, getting hurt or killed by others Family member hurt, sick, dying, working too hard Robbers, stealing Separation from others Spanking; in trouble T.V.; movies Needle (injection) Pet missing or hurt Run over by car Classroom tests	Dark, supernatural, dreams, someone scaring you 51 Wild animals, snakes, spiders, worms, bugs 4 Dogs - Fights, getting hurt or killed by others - Family member hurt, sick, dying, working too hard 5 Robbers, stealing 2 Separation from others 1 Spanking; in trouble - T.V.; movies 1 Needle (injection) 1 Pet missing or hurt 2 Bun over by car - Classroom tests -	Dark, supernatural, dreams, someone scaring you 51 #12 Wild animals, snakes, spiders, worms, bugs 4 #3 Dogs Fights, getting hurt or killed by others Family member hurt, sick, dying, working too hard 5 #1 Robbers, stealing 2 Separation from others 1 Spanking; in trouble - T.V.; movies 1 Needle (injection) 1 Pet missing or hurt 2 Run over by car - Classroom tests -	Dark, supernatural, dreams, someone scaring you Wild animals, snakes, spiders, worms, bugs Fights, getting hurt or killed by others Family member hurt, sick, dying, working too hard Robbers, stealing Separation from others T.V.; movies Needle (injection) Pet missing or hurt Classroom tests	Dark, supernatural, dreams, someone scaring you Wild animals, snakes, spiders, worms, bugs Dogs Fights, getting hurt or killed by others Family member hurt, sick, dying, working too hard Robbers, stealing Separation from others T.V.; movies Needle (injection) Pet missing or hurt Pun over by car Classroom tests T. V. (12M;12F) AND (12 AND	Dark, supernatural, dreams, someone scaring you 51 #12 8 #1 Wild animals, snakes, spiders, worms, bugs 4 #3 4 Dogs	No.

Number of children expressing this fear or worry.

Nineteen percent of the middle-SES children reported no fears or worries.

^{2&}lt;sub>Rank</sub>;

APPENDIX J

QUESTIONS: IS THERE ANYTHING YOU ARE SCARED OF? WHY? DO YOU EVER WORRY ABOUT ANYTHING? WHY?

SAMPLE: 50 CHILDREN (25M; 25F) in 4TH GRADE CLASS FOR THE GIFTED AND TALENTED

CAT	EGORIES	<i>i, 1 "</i>	# EXPRESSING 1 FEAR OR WORRY
1:	Dark, supernatural, dreams, someone scaring you	•	12
2.	Getting behind in schoolwork		12
3:	Fights, getting hurt or killed by others		11
4.	Family member hurt, sick, dying, working too hard		11
5:	Classroom tests	# . \$	9
ō.	Wild animals, snakes, spiders, worms, bugs		8
7:	Self hurt or dying	•	Ž
8;	Spanking; in trouble	sone Sone	6.
9.	Robbers, stealing		* , 5
10.	Pet missing or hurt		5 .
11.	Fālling	• • • •	5
12.	T.V.; movies		. 4
13.	Dogs	e e de la companya de la companya de la companya de la companya de la companya de la companya de la companya d En la companya de la companya de la companya de la companya de la companya de la companya de la companya de la	4
14.	Run over by car; car accident	- Ŋ	3
15.	Paying bills; finances \	•	2
16.	Needle (injection)	ش.	1
17.	'Fires		1
18.	Separation from others	*	1

Eight percent of the gifted children reported no fears or worries:

APPENDIX K

Ē

COMPARISON OF MOST OFTEN-MENTIONED FEARS OF GIFTED, LOW, AND MIDDLE SOCIOECONOMIC STATUS SUBJECTS

				_	<u>. K</u>					
		Low SES		<u>#</u> 1	•	M	iddle S	<u>ES</u>	#	! -
		rnatural animals	٠	18 10 8	-	Fai	pernatu mily men hurt		5 5 4	
,	Hurt	by oth er ly member		· 4	į		ld anim	als -	4	
		n = 26					$\tilde{n} = 24$	· ·	٠	
				:	<u>2</u>	:	_	,		
		Low SES		#		<u>M</u>	iddle S	<u>ES</u>	<u>#</u> -8	
	Hurt	natural by other	: S	13 9 9		Fai	pernatu mily mer			
	Dogs Wild	animāls		6		<u>P</u> ē	hurt t hurt ld anima	als	8 7 4	•
		$\vec{n} = 2\vec{6}$:				n = 24			
	;		;	,	_ <u> </u>	ì	. ~			
	•	Low SES		<u>#</u> :	-	<u>M</u> :	idd1e-Sl	<u> </u>	<u>#</u>	
	Wild Dogs	animals	₩	15 14	. . .	Far	ld anima nily men		9	
	hur	y member t natural		11		. Hur	nurt rt by ol lf hurt	thers	5 5 5	
		n = 26			į		n = 24			
			<u>G</u>	i f ted	•	<u>#</u>		. •		
· · · · · · · · · · · · · · · · · · ·			Supernatural Getting behind in schoolwork Hurt by others Family member hurt Tests, grades			12			š	*
						11 a.	; ; §		Ŧ	<u>-</u>
		•	12363,	-	= 50	ζ				
				••						

¹The number of expressed fears may be more than the number of subjects because subjects could express more than one fear.

APPENDIX L

QUESTION: IF YOU COULD STUDY ANYTHING YOU LIKED, WHAT WOULD YOU WANT TO STUDY? WHAT WOULD YOU LIKE TO KNOW MORE ABOUT?

SAMPLE: 78 CHILDREN (39M; 39F) OF LOWER SOCIOECONOMIC STATUS¹

KINDERGARTEN (13M	;13F)	2ND (13M;13F)	<u>_</u>	4TH (13M;1	3F)
ABC's Numbers Birds, animals Read books Make something Rivers Art John Henry What big kids do Birthdays Me Cars Exercises Singers Colors How to write name Use scissors Secretaries Clowns Work at McDonald's How to be Wonder Woman How to be teacher How to share How to draw How to make noney How to make money How to make monsters	66 3 2 2 2 1 1 1 1 1 1 1 1 1 1	Math Teachers Make things Doctors Movie stars Read Gymnastics Art M.L. King Karate Cars Build houses Girls Take care of pets Train animals How to study Football Race car drivers How to be president and get prices down Jogging Artists Being good Black history Tennis Write letters Homework People Being careful when you're alone	332222221111 1111 111111111111111111111	Math Reading Scientists Spelling Writing Art Animals Football Gymnastics Whales How to help animals Exciting stories Make things Sculpture Building cars Nurses Olympics Ballet Doctors Singers Nutrition Magic tricks Famous people California history	99843332222 1 11111111111111111111111111111
		Presidents	I	•	

¹Ten (13%) of the children did not express any study interests.



APPENDIX M

QUESTIONS: IF YOU COULD STUDY ANYTHING YOU LIKED, WHAT WOULD YOU WANT TO STUDY? WHAT WOULD YOU LIKE TO KNOW MORE ABOUT?

SAMPLE: 72 CHILDREN (36M; 36F) OF MIDDLE SOCIOECONOMIC STATUS¹

KINDERGARTEN (12M;12F) 2ND (12	M;12F)	4TH (12M;12F)	
How to read	2 Math	6	Space	4
How to color pretty	2 How to wr	ite	Math :	3
How to make words	l better	2	Animals	3
How to make a camel	Animals	~ 2	Reading	2
How to stay home	Drawing	2	\Spelling	2
How to cut paper	l Spelling	ĺ	History ,	.]
How to draw	l How to re	ād	Geography	1
How to make money	good -	1	Booksfiction	1
How to build a	How to ke	ep from	Trucks, trains	1
house	getting		How to be a	_
Baby bears	Puzzles	. 1	pilot.	1
Making presents	Rulesno	•	Make things/	_
How to get out	fightin		crafts]
of school	How to ge		Anatomy	Ţ
Dancing	of scho		Work faster	1
Singing	Magnets	<u>.</u> 1	Art	Ţ
- · · · · · · · · · · · · · · · · · · ·	How to dr	ive]	Cooking	1
	Stories	. 1	Get rid of	
	How to ma	kë	teachers	j
	school	be fun 1	Fairy tales	1



 $^{^1}$ Twenty-two (31%) of the children did not express any study interests.

APPENDIX N

QUESTIONS: IF YOU COULD STUDY ANYTHING YOU LIKED, WHAT WOULD YOU WANT TO STUDY? WHAT WOULD YOU LIKE TO KNOW MORE ABOUT?

SAMPLE: 50 (25M; 25F) GIFTED FOURTH GRADERS 1

Math Space How to be an artist' 32222222 Languages Animals Marine biology Computers Physical education Spanish Typing How to be a doctor Germany Knights How to use a gun How to make a laser pistol How to play hockey 1 Great racing car drivers Nature Chemistry Electronics Mechanics **Bicycles** Science Biographies Reading Italian Crocheting Human body Sculpting Indians Being a teacher Swedish

1 Seven (14%) of the children did not express any study interests:

