## Rural Seventh Graders' Academic Performance and Post-High School Education Plans: Major Factors Derived from Survey Data

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#### INTRODUCTION

Seventh grade is a crucial year in the lives of school children. They are transitioning from elementary education into secondary education at the same time that they are developing into adolescents. Seventh graders' educational and career plans are influenced by many variables: family, friends, experiences, present coursework, and their own aspirations and dreams. What do seventh graders' make of all the influences? Which factors influence them the most as they begin their secondary school years? What educational plans do they have early in the seventh grade?

## **Perspectives of Study**

Adolescence is characterized by emotional, physical, cognitive, and social transformations. As patterns of thoughts or choices emerge, youth begin to gain a picture of "who they are," which is essential for school to have meaning and purpose. Schools can help facilitate that transformation by providing an environment conducive for students to learn how to usefully and productively manage their time, energy, and efforts in ways that are meaningful to them for the future and yet enjoyable in the present (Quaglia & Perry, 1993). Educators can try to influence aspirations with inspiration, realism, and respect (Sizer, 1996). Schools can achieve this, according to Sizer, by attracting "interesting" staff with aspirations of their own, keeping schools small to allow more than casual interactions, making time for students to pursue interests, providing role models from the community, and being flexible. Quaglia and Cobb (1996) state that youth are pressured toward uniformity by social groups and schools can combat this mindset by fostering environments that encourages diversity, excellence, and risk taking among students.

Cobb, McIntyre, and Pratt (as cited in Quaglia & Perry, 1993) report that rural youth believe that their parents are more supportive of them taking full-time jobs, attending vocational schools, or joining the armed services rather than going to college. In addition, Walberg and Greenburg (1996) note that rural youth also face economic decline, limited work opportunities, and increased isolation, yet youth may be a rural community's greatest asset. When youth migrate from hometowns, rural communities suffer a loss of talent and vitality crucial to the development or maintenance of a desirable future for these communities (Ley, Nelson, & Beltyukova, 1996). Factors affecting outmigration include limited economic opportunities, lack of faith in a community to sustain favorable economic conditions, and a willingness of rural youth to look elsewhere. All of these, combined with overall lower aspirations for postsecondary education, make it difficult for rural youth to achieve career and economic success within a rural state such as West Virginia.

According to Kampits (1996), rural youth have significantly higher graduation rates from high school than urban youth, yet they are less likely to pursue college degrees. In addition, rural youth are less likely than more affluent youth to enroll in more demanding college-preparatory courses and are less likely to graduate from high school with firm plans for the future. She challenges educators to focus on the needs of the students.

## **Purpose and Objectives**

The purpose of this study was to listen to rural students' voices about their present schoolwork and educational plans for the future and discern, via factor analyzing their survey responses, what they view as the most important factors in their academic performance and posthigh school plans.

The first objective was to access the 2001-2002, 2002-2003, and 2003-2004 school year data from AEL's work with Fairmont State and the West Virginia Department of Education on their respective Gaining Early Awareness and Readiness for Undergraduate Programs (GEAR-UP) grants. AEL staff conducts baseline surveys of seventh graders and their parents for both five-year grants concerning their awareness of, interest in, and aspirations for students' postsecondary education.

The second objective was to inspect these rural seventh grade student survey items and break them down into variables for exploratory factor analyses. The third objective was to conduct the exploratory factor analyses on the aggregated data file to determine the best solution of factors emerging from the data.

The fourth and final objective was to study the factors emerging from the factor analyses, name the factors, and discuss their potential for future research/study.

Different from research seeking to confirm aspects of a theory already developed and espoused, this study sought to begin to develop a theory of educational and career planning by early adolescents in a rural state. As such, this study follows in the tradition of grounded theory, as explained by Glaser and Strauss (1967), who describe processes for the "discovery of theory from data--systematically obtained and analyzed in social research" (p.1). "Grounded theory is derived from data and then illustrated by characteristic examples of data," they continue (p.5).

## **METHODS**

This section presents explanations of the setting of the study, the surveys employed to collect the data, and the data analysis methods.

## **Context of Study**

This study was based on data from seventh-grade student surveys for the 2001-2002, 2002-2003, and 2003-2004 school years. This included three years of data for students in the Fairmont State Gaining Early Awareness and Readiness for Undergraduate Programs (GEAR-UP) project and two years (2001-2002, 2002-2003) for students in the West Virginia Department of Education GEAR-UP project.

These seventh graders live in 17 county school districts in West Virginia. All 55 county school districts in West Virginia are classified as rural and, thus, are in the Appalachian Regional Commission (n.d.) area. GEAR-UP is a program of the U. S. Department of Education, started in 1999. The five-year GEAR-UP partnership grants focus on encouraging disadvantaged youth to have high expectations, stay in school, and take rigorous courses to prepare them for college.

#### **Student Survey**

Seventh graders' completion of baseline surveys when they began their GEAR-UP activities is the source of data for this study. Appendix A is a copy of the seventh grade survey for the 2003-2004 school year in the Fairmont GEAR-UP project. This survey is typical of those used in both GEAR-UP projects for all three years.

The development of items to be factor analyzed from the seventh-grade survey requires explanation. The 90 survey questions were organized into the major sections of school and work, knowledge about college plans for the future, aspirations, and background (demographics). Over half (n=55) of the 90 items had interval or near-interval level response options including all 42 items in the aspirations section which had a 5-point, Likert-type response option of 1(Strongly Disagree) to 5 (Strongly Agree). The remaining items had nominal or categorical response options. Here, each response option was converted to a "present/not present" dummy variable. In the end the decomposition of the 90 survey items yielded a large set of 197 variables for the factor analyses.

The aggregated dataset contained a total of 9,734 seventh graders. Of these, 51% (n=4,790) were female and 49% (n=4,600) were male. There were 344 cases in which gender was not supplied by the respondent. Unfortunately, due to missing values, there was much attrition in viable cases for the factor analyses. Each respondent had to respond to every variable to be included in the listwise analyses. Missing values were not imputed to the data set. Upon inspection of the frequencies of responses (thus omissions) for each variable, the researchers decided to drop any variable with 1,000 or more omissions. Eight variables were eliminated, leaving 189. Consequently, there were 3,144 viable cases in the factor analyses.

## **Data Analyses**

Using SPSS, version 11.5 statistical software, factor analyses employing oblique rotation with Kaiser correction were performed on the rural, seventh-grade survey data. Nonorthogonal Oblique (Oblimin) rotation was selected because the survey items were correlated. Decomposing the 90 survey questions by their response options (explained above) yielded a large group of 189 variables for the factor analyses. Factors were generated using two methods: (1) by setting the eigenvalue at 1.00 with no delimiter on the number of factors (unrestricted) and (2) by limiting the number of factors (restricted or "forcing") to 15, based on the results from the first method. In order to be included in a factor, items had to have pattern/structure coefficients at least at the .300 level. For items with pattern/structure coefficients at or above .300 on multiple factors, they were included only in the factor with the highest coefficient so that each factor contained discrete items.

#### **FINDINGS**

#### **Unrestricted Factor Analysis Results**

As expected for a file of 189 variables, there were many factors with eigenvalues over 1.00 as the result of the unrestricted exploratory factor analysis. A total of 48 factors with eigenvalues above 1.00 explained 56% of the total variance. However, only the first 15 factors had eigenvalues above a rounded 2.0. Thus, the second method of forcing 15 factors in the factor analysis was deemed most appropriate.

## **Restricted Factor Analysis Results**

As a result of computing the factor analysis by forcing 15 factors, 13 eigenvalues were over 2.00 (range after rotation was 18.00 to 1.96) and together they explained 34% of the total variance. Thus, while the amount of total variance explained drops in the restricted method, the results are clearer and more understandable. However, one factor (#14) consisted of a single variable and was dropped.

Table 1 displays the variance explained for each component in the restricted (n=15) model principal components analysis. The data in Table 1 clearly shows that first factor explains almost a third of the variance and the second factor explains about half of that amount of the variance. From the third factor on, each explains relatively little of the total variance.

Table 2 displays this pattern matrix coefficients for the forced 15 factor model after oblique rotation. The order of the items within each factor (not the survey item numbers) are in the first column and the pattern coefficients for each component, from largest to smallest, comprise the remaining rows. The accepted criterion of for reporting pattern coefficients equal to or greater than .300 was used in constructing the table. The number of survey variables for each factor ranged from 24 to 1. Again, the size of the first factor in terms of the number of items included (n=24) is shown in the table. Factors 11 and 13 consist of all negative values, denoting low scores on those survey items. Also, the single item in factor 14 was a negative value: This factor was omitted because it consisted of a single item.

Table 1: Restricted Model Principal Components Analysis Variance Explained

Component	Total	Percent of	Cumulative
-			
Number	Eigenvalue	Variance	Percent
1	17.994	9.521	9.521
2	8.631	4.567	14.087
3	4.810	2.545	16.643
4	3.997	2.115	18.747
5	3.608	1.909	20.565
6	3.185	1.685	22.341
7	2.974	1.574	23.914
8	2.849	1.507	25.421
9	2.642	1.398	26.819
10	2.416	1.279	28.098
11	2.290	1.212	29.309
12	2.239	1.185	30.494
13	2.090	1.106	31.600
14	1.968	1.041	32.641
15	1.955	1.034	33.675

Table 2: Pattern Matrix Coefficients for Restricted Model Factors After Oblique Rotation

Item Number				Fa	actor Nu	mber ir	Order	of Larg	gest to S	mallest	Variance	e			
Within Each Factor	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.739	.704	722	.713	.636	.671	.683	.744	.522	.784	639	.619	590	391	.726
2	.738	.694	.711	.688	.514	.665	.678	.670	.475	.758	620	.612	573		.722
3	.716	.653	.666	.673	.498	.619	.673	.660	.472	.662	596	.580	464		.454
4	.709	.627	.660	.667	.486	.611	.635	.641	.467	.660	586	.534	311		.449
5	.704	.615	.647	.653	.467	.609	.634	.628	.460		482	.503	301		.352
6	.701	.613	.611	.631	.462	.598	.574	.595	.429		452	.445			
7	.694	.590	.556	.628	.449	.542	.533	.589	.424		451	.409			
8	.694	.584	484	.514	.426	.503	.520	.495	.403		442				
9	.658	.578	.467	.502	.425	.494	.512	.424	.374						
10	.638	.562	400	.487	.409	.449	.511		.344						
11	.637	.520		.439		.399	.478		.339						
12	.594	.462		.421		.314	.476								
13	.582	.312				.305									
14	.574														
15	.568														
16	.515														
17	.499														
18	.482														
19	.474														
20	.472														
21	.440														
22	.436														
23	.424														
24	.415														

**Note:** Factor 14 was omitted since only one item had a pattern matrix coefficient at or above .300. Subsequently, Factor 15 was relabeled as Factor 14.

## **Naming the Factors**

Inspection of the items in each of the 14 resultant factors led to tentative names for the factors. They are, in factor order:

- 1. Teacher/school/self-attitudes
- 2. History academic performance
- 3. Post-high school education plans
- 4. Math academic performance
- 5. People providing post-high school education information
- 6. English academic performance
- 7. Science academic performance
- 8. Importance of others to educational plans
- 9. Leadership
- 10. Homework time
- 11. High school course selection influences
- 12. Favorite subject reasons
- 13. Plans for math/science courses in high school
- 14. Resources for college (location and computer)

## **DISCUSSION/IMPLICATIONS**

Comments about several of the factors are warranted. The first and largest factor (eigenvalue of 18.00) contains 24 items, all from the aspirations section of the survey. These items ask the seventh graders to rate their level of agreement on items about their teachers, their school, and themselves. The second, fourth, sixth, and seventh factors all deal with questions regarding how well they are doing in specific subjects (history, math, English, and science, respectively) plus reasons why they feel they are not doing well in those subjects. Each of these academic performance factors is comprised of 12 variables derived from 3 survey questions. The third factor consists of variables derived from 10 survey questions dealing with going to college, the importance of education beyond high school, how far in schooling students think they will go, and how much schooling they think their mother and father want them to get.

Interestingly, the fifth, eighth, eleventh, twelfth, and thirteenth factors are each comprised of variables drawn from the responses to an individual survey question. For example, the survey item generating the eighth factor is question number four: "How important to you is what each of the following people think you should do about your education?" There were 12 choices (parent, grandparent, brother or sister, etc.), each of which was converted into a variable, and the response options were "Not important," "Some importance," and "Very important."

#### **Implications**

The importance of this study rests in the contribution that rural seventh graders' voices make, via their survey responses, to identifying factors involved in their academic performance and educational planning for high school and beyond. With these factors identified, models of educational planning and choice can be developed and tested empirically. For example, the factor of post-high school plans could serve as the dependent variable in a multiple regression or path analysis model and the remaining 13 factors could be independent or predictor variables. Thus, a theory of educational choice or planning for rural seventh graders can be developed.

Another important aspect of this study is the factors that did <u>not</u> emerge from the survey of rural seventh graders. Four variables have been identified by various researchers as appearing to influence student aspirations. These variables are gender, income (family's), race/ethnicity, and culture (Mau, 1995; Mau & Bikos, 2000; Mau, Hitchcock, & Calvert, 1998; Ramos & Sanchez, 1995; Trusty, Robinson, Plata, & Ng, 2000; Van Hook, 1993; and Wahl & Blackhurst, 2000). Three of these four variables (excluding culture) were asked as part of the seventh grade survey, yet none emerged in the final set of 14 factors. A logical extension of the above suggestion would be to add the variables of gender, income (family), and race/ethnicity into the multiple regression or path analysis models and observe their effects. This could aid in our understanding of these variables for these rural seventh graders' perceptions and educational plans and in the development of the theory of educational planning.

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## **APPENDIX A:**

Fairmont State College: GEAR-UP Partnership Grant; 2003-2004 7th Grade Student Survey

## Fairmont State College: GEAR UP Partnership Grant

## 2003-2004 7th Grade Student Survey

Please respond to all items by completely filling in the circle for each selected response.

Like this: O Not like this: O O

## **Identification Code:**

Student S			Soc	cial Security No.					<u>Co.</u>		Sch.	
0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9	9

## **School and School Work**

Who	o usually helps you with your homework? (	'Select	all that apply	<b>/.</b> )					
0 0 0	Parent or guardian Grandparent Brother or sister Other family member	0 0 0	Friend Teacher GEAR UP staff (mentor, tuto Some other person						
Com	npared with other students, how hard do yo	ou think	you work in	school?					
0 0 0	Not nearly as hard Not as hard About the same	0	Harder Much hard	ler					
Wha	at type of student do you consider yourself	to be?							
0 0	Poor Fair	0 0	Good Excellent						
	•	-	Not Impt.	Some Impt.	Very Impt.				
a. b. c. d. e. f. g. h. i. j. k. l.	Parent or guardian Grandparent Brother or sister Other family member Friend Religious leader (minister, priest, rabbi) Teacher Guidance counselor Principal or assistant principal Coach GEAR UP staff (mentor, tutor) Some other person		00000000000	0 0 0 0 0 0 0 0 0 0 0 0	00000000000				
	OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	O Parent or guardian O Grandparent O Brother or sister O Other family member  Compared with other students, how hard do you O Not nearly as hard O Not as hard O About the same  What type of student do you consider yourself O Poor O Fair  How important to you is what each of the follow people think you should do about your education a. Parent or guardian b. Grandparent c. Brother or sister d. Other family member e. Friend f. Religious leader (minister, priest, rabbi) g. Teacher h. Guidance counselor i. Principal or assistant principal j. Coach k. GEAR UP staff (mentor, tutor)	O Parent or guardian O Grandparent O Brother or sister O Other family member O Other family as hard O Not nearly as hard O Not as hard O About the same O O About the same O O Fair O Fair O O O Fair O O Fair O O Fair O O O Fair O O Fair O O Fair O O Fair O O O O Fair O O O O Fair O O O O O O O O O O O O O O O O O O O	O Parent or guardian O Grandparent O Brother or sister O Other family member O Other family member O Not nearly as hard O About the same  What type of student do you consider yourself to be? O Poor O Fair O Poor O Good O Fair O Pair O O Good O Fair O Compared with other students, how hard do you think you work in O Not as hard O About the same  What type of student do you consider yourself to be? O Poor O Good O Fair O Good O Fair O Cood O Excellent  How important to you is what each of the following people think you should do about your education?  a. Parent or guardian D. Grandparent C. Brother or sister D O Other family member C D Other family member C D OTHER STANDARD OF THE ONLY OF THE OLIVITY O	O Grandparent O Brother or sister O Other family member O Other family as hard O Other family as hard O Other family member O Other family member O Fair O Other family member				

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5.	5. I am doing well (a grade of A or B) in each of these subjects: Yes No Not Taking								
	a. b. c. d.	English History Math Science		0 0 0	0 0 0	O O O			
6.	-	u are not doing well in a particular subject, wlect all that apply for each subject.)	hy no	ot?	Eng.	His.	Math	Science	
	Subj Subj Don' Don' Don' Don' Don' Othe	e a C or D fect is too hard fect is boring It do well on tests It do all the assignments It like the teacher It understand the subject It like the subject It pay enough attention in class It study hard enough			00000000000	0000000000	00000000000	0000000000	
7.	Whic	ch subjects do you think you need help with?	(Sel	ect all th	at appl	'y.)			
	0 0 0	English History Math Reading	0 0 0	Social Studies Spelling					
8.	Wha	t is your favorite subject in school?							
	0 0 0 0	Art Band English History Math	0 0 0 0	Reading Science Social S Spelling Other	e Studies	:			
9.	Wha	t makes that subject your favorite? (Select a	ll tha	t apply.)					
	0 0 0 0	It's fun or cool It's easy to understand I like the teacher I am good at it	0 0 0	I like the It's chal I like the Other	lengin	g			
10.	Whic	ch of the following courses do you plan on tak	king ii	n high sc	hool?	(Selec	t all tha	nt apply.)	
	0 0 0	Algebra Calculus Chemistry	0 0 0	Foreign Physics Trigono	,	age			

11.	For	each of the following subjects, a	about <i>0</i>	how m	any ho	urs <u>eac</u> 1½	h day 2	do you 2½	spend	on homework? <i>Not Taking</i>
	a. b. c. d. e.	English Science Math History/Social Studies All other subjects combined	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	O O O O
12.	I thir	nk I have good study skills.							Yes O	No O
13.	I wo	uld be interested in attending a	n afte	r-schoo	ol tutori	ng prog	ıram.		Ο	0
14.	I thir	nk I have the ability to go to coll	ege.						0	0
15.	In so	chool, I participate in sports.							0	0
16.	In so	chool, I participate in clubs.		Ο	0					
17.	In so	chool, I participate in student go	vernr	ment.					Ο	0
18.	l use	e a computer for school projects		0	0					
19.	I hav	ve taken a computer class at so		0	0					
20.	l use	e a computer at home.		0	0					
21.	If yo	u have a computer at home, do		Ο	0					
22.	I pla	n to be living in West Virginia w	hen I	'm 30.					0	0
23.	I pla	n to be working in West Virginia	a whe	n I'm 30	0.			Ο	Ο	
24.	l wo	uld be interested in having a "co	ollege	e-type" r	mentor	or bud	dy.		0	0
Kn	owle	edge about College								
									Yes	No
25.	else	e you ever talked with your school about the entrared GPA, ACT scores, or other col	nce re	quirem	ents fo	r colleg	е		0	0
26.	_	ou have an idea of what course ool to prepare you for college?	es yo	u should	d take	in high			0	0
27.	Have	e you heard of the following typ	es of	schools	s?				Yes	No
	a. b. c.	Two-year or community colleg Four-year college or university Vocational, trade, or business	Ī	ol					0 0 0	O O O
28.	-	ou think a person with a colleg	_		-			e?	0	0

29.	<ol> <li>How much do you think it costs for one year of tuition at a four-year public college in your state?</li> <li>(This estimate should <u>not</u> include food, housing, or book expenses.)</li> </ol>									
	0 0 0	Up to \$1,000 \$1,001 - \$5,000 \$5,001 - \$10,000 \$10,001 - \$15,000			0 0 0	\$15,001 - \$20, \$20,001 - \$25, \$25,001 - \$30, More than \$30	000 000			
30.	How	important to your future is gettin	g an (	educati	on be	eyond high scho	ol?			
	0	Don't know Not important			0	Some important Very important				
Pla	ıns f	or the Future								
31.	Wha	it do you want to be when you gro	ow up	)?						
	000000000	Actor/actress Architect Artist Athlete (any sport) Astronaut Beautician Chef Computer/video technician Construction worker Designer/decorator	000000000	Docto Engine Lawye Mecha Militar Model Nurse Pharm Photo Physic	eer er anic y nacist		00000000	Scientis	ar driver st musician er Iriver arian eareer	
32.	•	ou think you will continue your eduction of that is, go to college or attend			_			0	0	
33.	Befo	ore entering the seventh grade, ha	ad yo	u ever	heard	d of GEAR UP?	0	0		
34.		n whom do you get most of your high school? (Select all that app		nation a	about	your options fo	r con	ntinuing y	our education	
	O Parent or guardian O Grandparent O Brother or sister O Other family member O Friend O Religious leader (minister, priest, rabbi)				0 0 0 0 0	Teacher Guidance counselor Principal or assistant principal Coach GEAR UP staff (mentor, tutor) Some other person				
35.	How	far in school do you think you wi	ll get	?						
	0 0 0	Less than high school graduation High school graduation Certificate program (less than 2-year c	ollege	pgm.)	0 0 0	Two-year college Four-year college Six-to-ten-year co	degre	ee (bachel	or)	

36.	6. What is the main reason you would not continue your education after high school?								
	0 0 0 0 0	No reason, I definitely will go It costs too much or I can't afford Don't need college for planned jo My grades are not good enough I'm just not interested I need or want to work		0 0 0 0 0	I want to join the military Don't want to be away from home Just don't like school I want to start a family Some other reason Don't know				
37.	Do y	you think you will be able to afford	to attend a	four-	-year college or ι	university a	ter high scl	nool?	
	0 0 0	Definitely can't afford it I doubt if I can afford it I'm not sure		0	Probably can a Definitely will be		ford it		
	O	Till flot Suic				Yes	No		
38.		ing the past year, have you discustattending a four-year college with a			•	Ο	Ο		
39.	Hav	e any of your family members atte	nded colle	ge?		Yes	No		
	<ul><li>a. Mother or female guardian</li><li>b. Father or male guardian</li><li>c. Grandparent</li><li>d. Brother or sister</li></ul>					0 0 0	0 0 0		
40.	How	v much education do you think you	r father or	male	guardian wants	you to get?			
	0 0 0	Less than high school graduation High school graduation Certificate program (less than 2-year co	llege pgm.)	0 0 0	Two-year college of Four-year college Six-to-ten-year col	degree (bach	elor)	orate)	
41.	How	v much education do you think you	r mother o	r fem	ale guardian war	nts you to g	et?		
	0 0 0	Less than high school graduation High school graduation Certificate program (less than 2-year co	llege pgm.)	0 0 0	Two-year college degree (associate) Four-year college degree (bachelor) Six-to-ten-year college degree (master, doctorate				
Ва	ckgı	round							
			Male		nale				
42.	Wha	at is your gender?	0	0					
			11	12	13	14	Other		
43.	How	v old are you?	Ο	0	0	0 (	)		
44.	How	v do you describe yourself?							
<ul> <li>O American Indian or Alaska Native</li> <li>O Asian</li> <li>O Black or African American</li> <li>O Hispanic or Latino</li> </ul>			2	0 0 0	Native Hawaiia White Biracial Multiracial	n or Other	Pacific Islar	nder	

45. How many brothers do you have?	0	1	2	3	4	5	6	7	8	9
46. How many sisters do you have?	0	1	2	3	4	5	6	7	8	9
47. Counting yourself, how many people live in your home?	0	1	2	3	4	5	6	7	8	9

# **Aspirations**

Use the following scale to indicate your level of agreement for each of the following items:

1 =	Strongly Disagree (SD)	2 = Disagree ( <b>D</b> )	3 = Don't Know ( <b>DK</b> )	4 = Agre	ee (A)	5 = S	trongly A	Agree (S	<b>(A</b> )
					SD	D	DK	Α	SA
48.	I need more education or	training after high so	chool to get a satisfying jo	b.	1	2	3	4	5
49.	I want to make some mor	ney immediately afte	r high school.		1	2	3	4	5
50.	I plan to continue my edu	cation after high sch	ool, no matter what my ca	areer.	1	2	3	4	5
51.	I can get a satisfying job	without further educa	ation after high school.		1	2	3	4	5
52.	Continuing my education	after high school mig	ght help me decide what	to do.	1	2	3	4	5
53.	I am anxious to begin my	career as soon as p	oossible after high school.		1	2	3	4	5
54.	The opinions/plans of frie	ends help me make d	lecisions for after high sch	nool.	1	2	3	4	5
55.	Getting a job right after hi	igh school might help	p me decide what I want t	o do.	1	2	3	4	5
56.	I won't be able to afford to	o continue my educa	ation after high school.		1	2	3	4	5
57.	The opinions/plans of fam	nily help me make de	ecisions for after high sch	ool.	1	2	3	4	5
58.	I can take control of situa	tions.			1	2	3	4	5
59.	I know what I want and I	go after it.			1	2	3	4	5
60.	I am a good leader.				1	2	3	4	5
61.	I can select the best way	to solve a problem.			1	2	3	4	5
62.	I do what I say I will.				1	2	3	4	5
63.	I usually have fun in class	S.			1	2	3	4	5
64.	I am a positive role mode	I to other students.			1	2	3	4	5
65.	Teachers care about my	problems and feeling	gs.		1	2	3	4	5
66.	Teachers respect my thou	ughts.			1	2	3	4	5
67.	I seek solutions to comple	ex problems.			1	2	3	4	5
68.	I have a strong caring rela	ationship with an adu	ult.		1	2	3	4	5

69.         Teachers care about my success in class.         5.0         D.K.         A.         S.A.           70.         I believe I can always improve.         1         2         3         4         5           71.         Teachers expect me to succeed.         1         2         3         4         5           72.         I am confident in my ability to do well.         1         2         3         4         5           73.         I take action on causes I believe in.         1         2         3         4         5           74.         Teachers value my opinions.         1         2         3         4         5           75.         I accept responsibility for my actions.         1         2         3         4         5           76.         I am proud of my school.         1         2         3         4         5           77.         Teachers help me to succeed.         1         2         3         4         5           78.         I put forth the necessary effort to reach a goal.         1         2         3         4         5           79.         Teachers sulport me when I try something new.         1         2         3         4 <t< th=""><th>1 =</th><th>Strongly Disagree (<b>SD</b>) 2 =</th><th>Disagree (<b>D</b>)</th><th>3 = Don't Know (<b>DK</b>)</th><th>4 = Ag</th><th>ree (A)</th><th>5 = 8</th><th>Strongly</th><th>Agree (<b>S</b></th><th><b>SA</b>)</th></t<>	1 =	Strongly Disagree ( <b>SD</b> ) 2 =	Disagree ( <b>D</b> )	3 = Don't Know ( <b>DK</b> )	4 = Ag	ree (A)	5 = 8	Strongly	Agree ( <b>S</b>	<b>SA</b> )
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72. I am confident in my ability to do well.       1       2       3       4       5         73. I take action on causes I believe in.       1       2       3       4       5         74. Teachers value my opinions.       1       2       3       4       5         75. I accept responsibility for my actions.       1       2       3       4       5         76. I am proud of my school.       1       2       3       4       5         77. Teachers help me to succeed.       1       2       3       4       5         78. I put forth the necessary effort to reach a goal.       1       2       3       4       5         79. Teachers support me when I try something new.       1       2       3       4       5         80. My courses help me to understand what is happening in my everyday life.       1       2       3       4       5         81. Teachers sull me I do a good job when I try my best.       1       2       3       4       5         82. I am eager to learn new things.       1       2       3       4       5         83. Teachers make learning exciting.       1       2       3       4       5         84. I have a teacher who is a positive role model fo	70.	I believe I can always improve	э.			1	2	3	4	5
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87. Teachers expect me to be a good decision maker.       1       2       3       4       5         88. Anyone can succeed if they work hard enough.       1       2       3       4       5         89. I have opportunities to decide for myself what I learn about in school.       1       2       3       4       5         90. Teachers encourage me to ask questions.       1       2       3       4       5         91. I like my school.       1       2       3       4       5         92. School is a good place to be.       1       2       3       4       5         93. I like to lead others.       1       2       3       4       5         94. Other students look to me for direction.       1       2       3       4       5         95. I am in control of my life.       1       2       3       4       5	85.	Teachers allow me to explore	topics I find inte	resting.		1	2	3	4	5
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89. I have opportunities to decide for myself what I learn about in school.       1       2       3       4       5         90. Teachers encourage me to ask questions.       1       2       3       4       5         91. I like my school.       1       2       3       4       5         92. School is a good place to be.       1       2       3       4       5         93. I like to lead others.       1       2       3       4       5         94. Other students look to me for direction.       1       2       3       4       5         95. I am in control of my life.       1       2       3       4       5	87.	Teachers expect me to be a g	good decision ma	aker.		1	2	3	4	5
90. Teachers encourage me to ask questions.       1       2       3       4       5         91. I like my school.       1       2       3       4       5         92. School is a good place to be.       1       2       3       4       5         93. I like to lead others.       1       2       3       4       5         94. Other students look to me for direction.       1       2       3       4       5         95. I am in control of my life.       1       2       3       4       5	88.	Anyone can succeed if they w	ork hard enough	1.		1	2	3	4	5
91. I like my school.  92. School is a good place to be.  93. I like to lead others.  94. Other students look to me for direction.  95. I am in control of my life.  97. I like to lead others.  98. I like to lead others.  99. I am in control of my life.	89.	I have opportunities to decide	for myself what	I learn about in school.		1	2	3	4	5
92. School is a good place to be.       1       2       3       4       5         93. I like to lead others.       1       2       3       4       5         94. Other students look to me for direction.       1       2       3       4       5         95. I am in control of my life.       1       2       3       4       5	90.	Teachers encourage me to as	sk questions.			1	2	3	4	5
93. I like to lead others.  1 2 3 4 5 94. Other students look to me for direction.  1 2 3 4 5 95. I am in control of my life.  1 2 3 4 5	91.	I like my school.				1	2	3	4	5
94. Other students look to me for direction.       1       2       3       4       5         95. I am in control of my life.       1       2       3       4       5	92.	School is a good place to be.				1	2	3	4	5
95. I am in control of my life. 1 2 3 4 5	93.	I like to lead others.				1	2	3	4	5
	94.	Other students look to me for	direction.			1	2	3	4	5
96. I like to make decisions for myself. 1 2 3 4 5	95.	I am in control of my life.				1	2	3	4	5
	96.	I like to make decisions for my	yself.			1	2	3	4	5

Items 63-90 are from the Students Speak survey developed by the National Center for Student Aspirations, College of Education and Human Development, University of Maine.