## Appendix F Mathematics Teacher Questionnaire

#### 1. (9.) Are you male or female?

- **O** Female
- **O** Male

### 2. (10.) Are you of Hispanic or Latino origin?

- **O** Yes
- **0** No

### 3. (11.) What is your race? (Mark all that apply)

- **O** White
- **0** Black/African American
- **O** Asian
- **O** Native Hawaiian or Other Pacific Islander
- 0 American Indian or Alaska Native

### 4. (1.) Do you have a bachelor's degree?

### [if no or missing, go to question 16]

- **O** Yes
- **0** No

### 5. (1a.) In what year did you receive your bachelor's degree?



6. (1b.) What is the name of the college or university where you earned this degree?

College

In what city and state is it located?

City \_\_\_\_\_ State\_\_\_\_\_

- 7. (1c.) Was this degree awarded by a college/university's school or department of education?
  - O Yes
  - **O** No

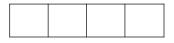
#### 8. (1d.) What was your major field of study?

#### 9. (1e.) Did you have a second major or minor field of study?

- **0** Yes  $\rightarrow$  Skip to question  $\frac{1}{10}$
- **0** No  $\rightarrow$  Skip to question  $\frac{211}{2}$
- 10. (1f.) What was your second major or minor field of study?

11. (2.) Do you have a master's degree?

- 0 Yes → Skip to question 2a12
  0 No → Skip to question 316
- 12. (2a.) In what year did you receive your master's degree?



13. (X1.) What is the name of the college/university where you earned your master's degree?

College/University

14. (2b.) Was this degree awarded by a college/university's school or department of education?

**O** Yes

**0** No

15. (2c.) What was your major field of study?

**16. (3.) Have you earned any of the degrees or certificates listed below?** [If so, same three sub questions for each that applies]

- **0** Vocational certificate
- **O** Associate's degree
- **0** SECOND Bachelor's degree
- **0** SECOND Master's degree
- **O** Educational specialist or professional diploma (at least one year beyond master's level)
- **O** Certificate of Advanced Graduate Studies

**0** Doctorate or first professional degree

#### 



#### 18. (4.) Which of the following college courses have you completed?

- **O** Calculus
- **O** Abstract algebra
- **O** Linear algebra
- **O** Non-Euclidean geometry
- **O** Probability and statistics
- **O** Discrete or finite mathematics
- **O** Other upper division mathematics

### **19. (6.)** Which of the following describes the teaching certificate you currently hold in THIS state?

- **O** Regular or standard state certificate or advanced professional certificate
- **O** Certificate issued after satisfying all requirements except the completion of a probationary period
- **O** Certificate that requires some additional coursework, student teaching, or test score before regular certification can be obtained
- **O** Certificate issues to persons who must complete a certification program in order to continue teaching
- **0** I do not hold any of the above certifications in THIS state  $\rightarrow$  Skip to question 821

### **20.** (7.) In which grades does this certificate allow you to teach mathematics in THIS state? (Select all that apply)

- **O** Any grade, kindergarten 5th
- **O** Any grade, 6th 8th
- **O** Any grade, 9th 12th

#### 21. (8.) Did you enter teaching through an alternative certification program?

- **O** Yes
- **0** No

- 22. (X1.) Did you work in a field or a job in which you used math before becoming a teacher?
  - **0** Yes**0** No
- 23. (12a.) Including this year, how many years in total have you taught at the elementary level (K-8)?



24. (12b.) Including this year, how many years in total have you taught at the secondary level (9-12)



Years

Years

25. (13.) Including this year, how many years have you taught mathematics at the secondary level (9-12)?



Years

26. (14.) Including this year, how many years in total have you taught in this school?



Years

- 27. (15.) Are you currently collecting a pension from a teacher retirement system or drawing money from a school/system sponsored 401(k) or 403(b) plan which includes funds you contributed as a teacher?
  - O Yes
  - **0** No

## 28. (18.) Indicate the extent to which you agree or disagree with each of the following statements about mathematics teachers at this school:

		Strongly		
	Strongly	Agree	٨	
	Disagree	Agree Disagree	Agree	
a.	In this school, mathematics teachers set high standards for teaching	0	0	
b.	In this school, math teachers set high standards for students' learning.	0	0	
C.	Mathematics teachers in this school believe all students can		0	
	do well.	0 0	0 0	
d.	In this school, math teachers make expectations for instructional goals clear to students.	0	0	
e.	Mathematics teachers in this	0	0	
с.	school give up on some students.	0 0	0 0	
f.	Mathematics teachers in this school care only about smart students.	0	0	
g.	Mathematics teachers in this school	0	0	
1	expect very little from students.	0 0	0 0	
h.	Mathematics teachers in this school work hard to make sure all students	0	C	
	are learning.	0 0	0 0	

For each class in which an HSLS student is enrolled: [Note: routed through preloaded link]

### 29. (19.) Which of the following best describes the title of this mathematics course?

- O Algebra I
- **O** Algebra IA
- O Algebra IB
- **O** Algebra II
- **O** Calculus
- O Calculus Prep

- **O** Calculus AP
- 0 Discrete Math
- **O** Geometry
- O Integrated Math I
- **O** Integrated Math II
- **O** Integrated Math III
- 0 Integrated Math IV
- **O** Probability/Statistics
- **O** Probability/Statistics AP
- **O** Review/Remedial Math
- **O** Other Math Course (please specify):

#### 30. (20.) What textbook/program is primarily used in this class?

Publisher

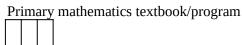
Title

Edition

**31. (21.)** Approximately what percentage of this textbook/program do you plan to cover this school year?



### 32. (22.) What percentage of the instructional time in this class do you anticipate will be based on each of the following:



Other textbooks/programs



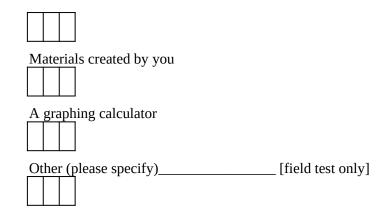
Other commercially available instructional materials



Materials obtained from professional development courses



Materials obtained at conferences/conventions (e.g., National Council of Teachers of Mathematics)



### 33. (23.) Thinking of a typical student in this class, which of the following best describes the difficulty level of the primary textbook/program? (Mark one)

- **O** It is much too easy
- **O** It is somewhat too easy
- **O** It is at the appropriate level
- **O** It is somewhat too difficult
- **O** It is much too difficult

### 34. (24.) How often do you anticipate the designated mathematics textbook/program will be used in each of the following ways:

Never Rarely Some- Often Always

times

a. I will follow the textbook/program page by page. 0 0 0 0 0 b. I will pick what is important from the textbook/program and skip the rest. 0 0 0 0 0 c. I will follow my district's curriculum recommendations regardless of what is in the textbook/program. 0 0 0 0 0 d. The textbook/program will guide the structure (content emphasis)

	of my course.	0 0 0	0 0
e.	I will incorporate activities from other sources to supplement what the	0	
	textbook/program is lacking.	0 0 0	0 0
f.	I will read and review suggestions in the textbook's/program's teacher guide to		
	plan my lessons.	0 0 0	0 0
g.	I will use the student textbook/program to	0	
0	plan my lessons.	0 0	0 0
h.	I will assign homework from the	0	
	textbook/program.	0 0 0	0 0
i.	My students will use their textbook/program	0	
	during the mathematics lesson.	0 0 0	0 0
j.	My students will use their textbook/program	U	
	for homework assignments.	0 0 0	0 0

#### 35. (25.) For this class, what percentage of the test items you plan to use...

Come from the primary textbook or program



Come from other commercially available materials



Come from professional development courses



Were developed by the school or district



Were developed by you



Come from another source (please specify)\_\_\_\_[field test only]

36. (26.) To what extent do you agree or disagree with each of the following statements about how high school mathematics teaching assignments are made in this school? (Mark all that apply)

Strongly
----------

		<b>ou ong</b> -j			
Sti	rongly	-	-		
a.	Advanced courses are assigned to teachers with	Agree	Agree	Disagree	Disagree
	the most seniority.	0	0		
		0	C		
b.	Advanced courses are assigned to teachers with the strongest mathematics background.	0	0 0 0		
C.	All or most mathematics teachers are assigned at least one section of advanced courses.	0	0 0 0		
d.	Non-college prep courses are assigned to teachers new to the profession.	0 0	0	0	

e.	Non-college prep courses are assigned to teachers whose students don't perform well on		
	standardized tests.	0	0
		0	
		0	
f.	All or most mathematics teachers are assigned at least one section		
	of a non-college prep course.	0	0
		0	
		0	

# 37. (27.) How do you rate the remedial help in your school for grades 9-12 students who are struggling in Algebra I?

			Poor	
	Good	Excellent		
a.	Availability of	tutoring or othe	r	
	remedial assista	ance	0	0
			0	
			0	
b.	Quality of tuto	ring or other ren	nedial	
	assistance	-	0	0
			0	0

### **38. (31.)** To what extent do you agree or disagree with each of the following statements about the mathematics department in this school?

<b>C</b> 4	4	Strongly	
Str	ongly	0	Agree Disagree
a.	Mathematics teachers share ideas on teaching	0	0
b.	Mathematics teachers discuss	0 0 0	0
	what was learned at a workshop or conference	0 0	0 0
c.	Mathematics teachers share and discuss student work	0	0
d.	Mathematics teachers discuss particular lessons that were not		-
e.	very successful Mathematics teachers in this	0 0	0 0
	department discuss beliefs about teaching and learning	0	0
f.	Mathematics teachers in this department share and discuss research on effective teaching	-	c
g.	methods Mathematics teachers in this department share and discuss	0 0	0
	research on effective instructional practices for English language learners	0	0
h.	Mathematics teachers in this department explore new teaching approaches for under-performing	0	0
i.	students Mathematics teachers in this	0 0	0 0
1.	department make a conscious effort to coordinate the content of courses with other teachers in the school	0	Ο
j.	Mathematics teachers in this	0	0

	students mathematics	0 0	0 0
k.	Mathematics teachers in this department provide support to		
	new mathematics teachers	0	0
		0	0
1.	The mathematics department's chair or curricular area coordinator's behavior toward the staff is		
	supportive and encouraging	0 0	0 0

# 39. (17.) <u>In general, h</u>How would you compare boys and girls in...?

		Girls are Boys	Girls Boys	Girls and boys
		much are somewhat better better	are somewhat	t are the same
a.	Reading O	0 0	0	0
b.	Math O	0 0	0	0
c.	Writing O	0 0	0	0
d.	Science O	0 0	0	0

### 40. (28.) To what extent is each of the following a problem in this school?

		A	Not Applicable	Not At All
		A Little	A Lot	
a.	Student tardiness		0	0
			0	0
b.	Student absenteeism		0	0
			0	0
с.	Student truancy		0	0
			0	0
d.	Teacher absenteeism		0	0
			0	0
e.	Students dropping out		0	0
			0	0

f.	Student apathy	0	0
		0	0
g.	Lack of parental involvement	0	0
		0	0
h.	Poverty	0	0
		0	0
i.	Students coming to school unprepared		
	to learn	0	0
		0	0
j.	Poor student health	0	0
		0	0
k.	Lack of resources and materials for		
	teachers	0	0
		0	0

### 41. (29.) In your view, to what extent do the following limit how you teach?

		Not A A	Not
		Applicable Little Lot	At All Some
a.	Students with different academic abilities in the same class	0 0 0	0 0
b.	Students who come from a wide range of socioeconomic backgrounds	0 0 0	0 0
c.	Students who come from a wide range of language backgrounds	0 0 0	0 0
d.	Students with special needs (e.g., hearing, vision, speech impairmen physical disabilities, mental or emotional/psychological impairment)	C	Ο
e.	Uninterested students	0 0 0	0
f.	Low morale among students	0 0 0 0	0 0 0
g.	Disruptive students	0 0 0	0 0
h.	Shortage of computer hardware/softwar	e O O O	0 0
i.	Shortage of support for using computers		0 0
j.	Shortage of textbooks for student use	0 0 0	0 0
k.	Shortage of other instructional equipme for students' use	nt O O O	0 0
l.	Shortage of equipment for teacher use in	-	

	demonstrations and other exercises	0	0
		0	0
m.	Inadequate physical facilities	0 0	0
		0	0
		0	
n.	High student/teacher ratio	0	0
		0	0
		0	_
0.	Lack of planning time	Ο	0
		Ο	0
		0	
р.	Lack of autonomy in instructional	_	_
	decisions	Ο	0
		Ο	0
		0	_
q.	Lack of parent/family support	0	0
		Ο	0
		Ο	
r.	Inadequate opportunities for professional		
	development	Ο	0
		Ο	0
		Ο	
s.	Inadequate administrative support	0	0
		Ο	Ο
		Ο	

42. (16.) Indicate the extent to which you agree or disagree with each of the following
statements as it applies to your instruction:

		Strongly Strongly Agree Disagree	Agree Disagree
a.	The amount a student can learn is primarily related to family background.	0	0
b.	If students aren't disciplined at home, they aren't likely to accept any discipline.	0	0
c.	A teacher is very limited in what he/she can achieve because a student's home environment is a large influence on his/her	0	0
d.	achievement. If parents would do more for their	0 0	0 0
	children, I could do more for my students.	0 0	0 0
e.	If a student did not remember information I gave in a previous lesson, I'd know how to increase his/her retention in the next lesson.	0	0
f.	If a student in my class becomes disruptive and noisy, I feel assured that I know some techniques to redirect him/her quickly.	0	0
g.	If one of my students couldn't do a class assignment, I could accurately assess whether the assignment was at the correct level	0	0
h.	of difficulty. If I really try hard, I can get through	0 0	0 0
	to even the most difficult or unmotivated students.	0 0	0 0

 When it comes right down to it, a teacher really can't do much because most of a student's motivation and performance depends on his or her home environment.
 O
 O
 O
 O

43. (30.) Please indicate the extent to which you agree or disagree with each of the following statements <u>about your school's principal.</u>

		Strongly Strongly Agree Disagree	Agree Disagree
a.	The principal deals effectively	-	-
	with pressures from outside the school that might interfere with		
	my teaching	0	0
		Ο	0
b.	The principal does a poor job of		
	getting resources for this school	Ο	0
		Ο	0
с.	The principal sets priorities, makes		
	plans, and sees that they are carried		
	out	0	Ο
		0	Ο
d.	The principal knows what kind of		
	school he/she wants and has		
	communicated it to the staff	0	0
		0	0
e.	The principal lets staff members		
	know what is expected of them	0	0
		0	0
f.	The principal is interested in		
	innovation and new ideas	Ο	0
		Ο	0
g.	The principal usually consults with staff members before he/she makes		
	decisions that affect us	0	0
		0	Ο

### 44. (32.) Indicate the extent to which you agree or disagree with each of the following statements <u>about the teachers at your school.</u>

		Strongly Strongly Agree Disagree	Agree Disagree
a.	Teachers in this school help maintain discipline in the entire school, not just their classroom.	0	0 0
Ь.	Teachers in this school take responsibility for improving the school.	0	0
c.	Teachers in this school set high standards for themselves.	0	0
d.	Teachers in this school feel responsible for helping students develop self-control.	0	0
e.	Teachers in this school feel responsible to help each other do their best.	0	0
f.	Teachers in this school feel responsible that all students learn.	0	0
g.	Teachers in this school feel responsible when students in this school fail.	0	0 0