

# **Appendix A**

## **PAEMST Instruments**

**Science Questionnaire (Teacher)**

**Mathematics Questionnaire (Teacher)**

**List of Course Titles**

**PAEMST Awardee Questionnaire: Science**

**PAEMST Awardee Questionnaire: Mathematics**

# 2000 National Survey of Science and Mathematics Education

## Science Questionnaire

You have been selected to answer questions about your science instruction. If you do not currently teach science, please call us toll-free at 1-800-937-8288.

### How to Complete the Questionnaire

Most of the questions instruct you to "darken one" answer or "darken all that apply." For a few questions, you are asked to write in your answer on the line provided. Please use a #2 pencil or blue or black pen to complete this questionnaire. Darken ovals completely, but do not stray into adjacent ovals. Be sure to erase or white out completely any stray marks.

### Class Selection

Part of the questionnaire (sections C and D) asks you to provide information about instruction in a particular class. If you teach science to more than one class, use the label at the right to determine the science class that has been randomly selected for you to answer about. (If your teaching schedule varies by day, use today's schedule, or if today is not a school day, use the most recent school day.)

### If You Have Questions

If you have questions about the study or any items in the questionnaire, call us toll-free at 1-800-937-8288.

Each participating school will receive a voucher for \$50 worth of science and mathematics materials. The voucher will be augmented by \$15 for each responding teacher. In addition, each participating school will receive a copy of the study's results in the spring of 2001.

Thank you very much. Your participation is greatly appreciated. Please return the completed questionnaire to us in the postage-paid envelope:

*2000 National Survey of Science and Mathematics Education  
Westat  
1650 Research Blvd.  
TB120F  
Rockville, MD 20850*



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## A. Teacher Opinions

1. Please provide your opinion about each of the following statements.  
(Darken one oval on each line.)

	Strongly Disagree	Disagree	No Opinion	Agree	Strongly Agree
a. Students learn science best in classes with students of similar abilities.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. The testing program in my state/district dictates what science content I teach.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. I enjoy teaching science.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. I consider myself a "master" science teacher.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. I have time during the regular school week to work with my colleagues on science curriculum and teaching.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. My colleagues and I regularly share ideas and materials related to science teaching.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Science teachers in this school regularly observe each other teaching classes as part of sharing and improving instructional strategies.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Most science teachers in this school contribute actively to making decisions about the science curriculum.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2a. How familiar are you with the *National Science Education Standards*, published by the National Research Council?  
(Darken one oval.)

- Not at all familiar, SKIP TO QUESTION 3
- Somewhat familiar
- Fairly familiar
- Very familiar

2b. Please indicate the extent of your agreement with the overall vision of science education described in the *National Science Education Standards*. (Darken one oval.)

Strongly Disagree	Disagree	No Opinion	Agree	Strongly Agree
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2c. To what extent have you implemented recommendations from the *National Science Education Standards* in your science teaching? (Darken one oval.)

Not at all	To a minimal extent	To a moderate extent	To a great extent
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## B. Teacher Background

3. Please indicate how well prepared you currently feel to do each of the following in your science instruction. (Darken one oval on each line.)

	Not Adequately Prepared	Somewhat Prepared	Fairly Well Prepared	Very Well Prepared
a. Take students' prior understanding into account when planning curriculum and instruction	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Develop students' conceptual understanding of science	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Provide deeper coverage of fewer science concepts	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Make connections between science and other disciplines	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Lead a class of students using investigative strategies	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Question 3 continues on next page...

3. *continued...*

	Not Adequately Prepared	Somewhat Prepared	Fairly Well Prepared	Very Well Prepared
f. Manage a class of students engaged in hands-on/project-based work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
g. Have students work in cooperative learning groups	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Listen/ask questions as students work in order to gauge their understanding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. Use the textbook as a resource rather than the primary instructional tool	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. Teach groups that are heterogeneous in ability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k. Teach students who have limited English proficiency	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
l. Recognize and respond to student cultural diversity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
m. Encourage students' interest in science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
n. Encourage participation of females in science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
o. Encourage participation of minorities in science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
p. Involve parents in the science education of their children	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
q. Use calculators/computers for drill and practice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
r. Use calculators/computers for science learning games	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
s. Use calculators/computers to collect and/or analyze data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
t. Use computers to demonstrate scientific principles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
u. Use computers for laboratory simulations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
v. Use the Internet in your science teaching for general reference	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
w. Use the Internet in your science teaching for data acquisition	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
x. Use the Internet in your science teaching for collaborative projects with classes/individuals in other schools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

4a. Do you have each of the following degrees?

Bachelors	<input type="radio"/>	Yes	<input type="radio"/>	No
Masters	<input type="radio"/>	Yes	<input type="radio"/>	No
Doctorate	<input type="radio"/>	Yes	<input type="radio"/>	No

4b. Please indicate the subject(s) for each of your degrees.  
(Darken all that apply.)

	Bachelors	Masters	Doctorate
Biology/Life Science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Chemistry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Earth/Space Science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Physics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other science, please specify: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Science Education (any science discipline)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mathematics/Mathematics Education	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Elementary Education	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other Education (e.g., History Education, Special Education)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

PLEASE DO NOT WRITE IN THIS AREA



[SERIAL]



8. In what year did you last take a formal course for college credit in:  
(Please enter your answers in the spaces provided, then darken the corresponding oval in each column.)

a. Science

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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b. The Teaching of Science

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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If you have never taken a course in the teaching of science, darken this oval  and go to question 9.

9. What is the **total** amount of time you have spent on professional development in science or the teaching of science in the last 12 months? in the last 3 years? (Include attendance at professional meetings, workshops, and conferences, but **do not** include formal courses for which you received college credit or time you spent **providing** professional development for other teachers.) (Darken one oval in each column.)

<u>Hours of In-service Education</u>	<u>Last 12 months</u>	<u>Last 3 years</u>
None	<input type="radio"/>	<input type="radio"/>
Less than 6 hours	<input type="radio"/>	<input type="radio"/>
6-15 hours	<input type="radio"/>	<input type="radio"/>
16-35 hours	<input type="radio"/>	<input type="radio"/>
More than 35 hours	<input type="radio"/>	<input type="radio"/>

10. In the past **12 months**, have you: (Darken one oval on each line.)

a. Taught any in-service workshops in science or science teaching?	<input type="radio"/> Yes	<input type="radio"/> No
b. Mentored another teacher as part of a formal arrangement that is recognized or supported by the school or district, not including supervision of student teachers?	<input type="radio"/> Yes	<input type="radio"/> No
c. Received any local, state, or national grants or awards for science teaching?	<input type="radio"/> Yes	<input type="radio"/> No
d. Served on a school or district science curriculum committee?	<input type="radio"/> Yes	<input type="radio"/> No
e. Served on a school or district science textbook selection committee?	<input type="radio"/> Yes	<input type="radio"/> No

11. In the past **3 years**, have you participated in any of the following activities related to science or the teaching of science? (Darken one oval on each line.)

a. Taken a formal college/university science course. (Please do not include courses taken as part of your undergraduate degree.)	<input type="radio"/> Yes	<input type="radio"/> No
b. Taken a formal college/university course in the teaching of science. (Please do not include courses taken as part of your undergraduate degree.)	<input type="radio"/> Yes	<input type="radio"/> No
c. Observed other teachers teaching science as part of your own professional development (formal or informal).	<input type="radio"/> Yes	<input type="radio"/> No
d. Met with a local group of teachers on a regular basis to study/discuss science teaching issues.	<input type="radio"/> Yes	<input type="radio"/> No
e. Collaborated on science teaching issues with a group of teachers at a distance using telecommunications.	<input type="radio"/> Yes	<input type="radio"/> No
f. Served as a mentor and/or peer coach in science teaching, as part of a formal arrangement that is recognized or supported by the school or district. (Please do not include supervision of student teachers.)	<input type="radio"/> Yes	<input type="radio"/> No
g. Attended a workshop on science teaching.	<input type="radio"/> Yes	<input type="radio"/> No

Question 11 continues on next page...

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[SERIAL]

63 11. continued...

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- 61 h. Attended a national or state science teacher association meeting.  Yes  No
- 60 i. Applied (or applying) for certification from the National Board for Professional Teaching Standards (NBPTS).  Yes  No
- 59 j. Received certification from the National Board for Professional Teaching Standards (NBPTS).  Yes  No

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Questions 12a-12c ask about your professional development in the last 3 years. If you have been teaching for fewer than 3 years, please answer for the time that you have been teaching.

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12a. Think back to **3 years ago**. How would you rate your level of need for professional development in each of these areas *at that time*? (Darken one oval on each line.)

	None Needed	Minor Need	Moderate Need	Substantial Need
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49 Deepening my own science content knowledge

48 Understanding student thinking in science

47 Learning how to use inquiry/investigation-oriented teaching strategies

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45 Learning how to use technology in science instruction

44 Learning how to assess student learning in science

43 Learning how to teach science in a class that includes students with special needs

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12b. Considering all the professional development you have participated in **during the last 3 years**, how much was each of the following emphasized? (Darken one oval on each line.)

	Not at all	To a great extent		
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38 Deepening my own science content knowledge

37 Understanding student thinking in science

36 Learning how to use inquiry/investigation-oriented teaching strategies

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34 Learning how to use technology in science instruction

33 Learning how to assess student learning in science

32 Learning how to teach science in a class that includes students with special needs

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12c. Considering all your professional development in the **last 3 years**, how would you rate its impact in each of these areas? (Darken one oval on each line.)

	Little or no impact	Confirmed what I was already doing	Caused me to change my teaching practices
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26 Deepening my own science content knowledge

25 Understanding student thinking in science

24 Learning how to use inquiry/investigation-oriented teaching strategies

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22 Learning how to use technology in science instruction

21 Learning how to assess student learning in science

20 Learning how to teach science in a class that includes students with special needs

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13c. **For teachers of self-contained classes:** We are interested in knowing how much time your students spend studying various subjects. In a typical week, how many days do you have lessons on each of the following subjects, and how many minutes long is an average lesson? (Please indicate "0" if you do not teach a particular subject to this class. Please enter your answer in the spaces provided, then darken the corresponding oval in each column. Enter the number of minutes as a 3-digit number; e.g., if 30 minutes, enter as 030.)

Mathematics		Science		Social Studies		Reading/Language Arts	
Days Per Week	Approximate Minutes Per Day	Days Per Week	Approximate Minutes Per Day	Days Per Week	Approximate Minutes Per Day	Days Per Week	Approximate Minutes Per Day
<input type="radio"/> 0	<input type="radio"/> 000	<input type="radio"/> 0	<input type="radio"/> 000	<input type="radio"/> 0	<input type="radio"/> 000	<input type="radio"/> 0	<input type="radio"/> 000
<input type="radio"/> 1	<input type="radio"/> 000	<input type="radio"/> 1	<input type="radio"/> 000	<input type="radio"/> 1	<input type="radio"/> 000	<input type="radio"/> 1	<input type="radio"/> 000
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**NOW GO TO SECTION C, PAGE 8.**

14. Which of these categories best describes the way **your** classes at this school are organized? (Darken one oval.)
- a. **Departmentalized Instruction**—you teach subject matter courses (including science, and perhaps other courses) to several different classes of students all or most of the day.
  - b. **Elementary Enrichment Class**—you teach only science in an elementary school.
  - c. **Team Teaching**—you collaborate with one or more teachers in teaching multiple subjects to the same class of students; your assignment includes science.

15a. **For teachers of non-self-contained classes:** Within science, many teachers feel better qualified to teach some topics than others. How well qualified do you feel to teach each of the following topics **at the grade level(s) you teach**, whether or not they are currently included in your curriculum? (Darken one oval on each line.)

	Not Well Qualified	Adequately Qualified	Very Well Qualified
1. Earth science			
a. Earth's features and physical processes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. The solar system and the universe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Climate and weather	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Biology			
a. Structure and function of human systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Plant biology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Animal behavior	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Interactions of living things/ecology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Genetics and evolution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Chemistry			
a. Structure of matter and chemical bonding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Properties and states of matter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Chemical reactions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Energy and chemical change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*Question 15a continues on next page...*



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15a. continued...

		Not well qualified	Adequately qualified	Very well qualified
4.	Physics			
a.	Forces and motion	1	2	3
b.	Energy	1	2	3
c.	Light and sound	1	2	3
d.	Electricity and magnetism	1	2	3
e.	Modern physics (e.g., special relativity)	1	2	3
5.	Environmental and resource issues			
a.	Pollution, acid rain, global warming	1	2	3
b.	Population, food supply and production	1	2	3
6.	Science process/inquiry skills			
a.	Formulating hypotheses, drawing conclusions, making generalizations	1	2	3
b.	Experimental design	1	2	3
c.	Describing, graphing, and interpreting data	1	2	3

15b. **For teachers of non-self-contained classes:** For each class period you are currently teaching, regardless of the subject, give *course title*, the *code-number* from the enclosed blue "List of Course Titles" that best describes the content addressed in the class, and the *number of students* in the class. (Please enter your answers in the spaces provided, then darken the corresponding oval in each column. **If you teach more than one section of a course, record each section separately below.**)

- Note that if you have more than 39 students in any class, you will not be able to darken the ovals, but you should still write the number in the boxes.
- If you teach more than 6 classes per day, please provide the requested information for the additional classes on a separate sheet of paper.

Course Title		Code #	# of Students	Course Title		Code #	# of Students	Course Title		Code #	# of Students
		1	1			1	1			1	1
		1	1			1	1			1	1
		2	2			2	2			2	2
		2	2			2	2			2	2
		3	3			3	3			3	3
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		56	56			56	56			56	56
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		58	58			58	58			58	58
		59	59			59	59			59	59
		60	60			60	60			60	60
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		62	62			62	62			62	62
		63	63			63	63			63	63

### C. Your Science Teaching in a Particular Class

The questions in this section are about a particular science class you teach. **If you teach science to more than one class per day, please consult the label on the front of this questionnaire to determine which science class to use to answer these questions.**

16. Using the blue "List of Course Titles," indicate the code number that best describes this course. Please enter your answer in the spaces to the right, then darken the corresponding oval in each column. (If "other" [Code 199], briefly describe content of course:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_)

Code #

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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- 17a. Are all students in this class in the same grade?

Yes, specify grade:  
THEN SKIP TO QUESTION 18a

No, CONTINUE WITH QUESTION 17b

- 17b. What grades are represented in this class? (Darken all that apply.) For each grade noted, indicate the number of students in this class in that grade. Write your answer in the space provided, then darken the corresponding oval in each column. **Note that if more than 39 students in this class are in a single grade, you will not be able to darken the ovals, but you should still write the number in the boxes.**

<input type="radio"/> K	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> 6	<input type="radio"/> 7	<input type="radio"/> 8	<input type="radio"/> 9	<input type="radio"/> 10	<input type="radio"/> 11	<input type="radio"/> 12
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

- 18a. What is the total number of students in this class? Write your answer in the space provided, then darken the corresponding oval in each column. **Note that if you have more than 39 students in this class, you will not be able to darken the ovals, but you should still write the number in the boxes.**

<input type="radio"/>	<input type="radio"/>
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53 18b. Please indicate the number of students in this class in each of the following categories. Consult the enclosed federal guidelines at the end of the course list (blue sheet) if you have any questions about how to classify particular students. (Please enter your answers in the spaces provided, then darken the corresponding oval in each column.)

### RACE/ETHNICITY

												Native Hawaiian or Other Pacific Islander			
American Indian or Alaskan Native		Asian		Black or African-American		Hispanic or Latino (any race)				White					
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female				
50	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>				
49	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)				
48	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)				
47	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)				
46	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)				
45	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)				
44	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)				
43	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)				
42	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)				
41	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)				
40	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)				

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36 19a. **Questions 19a and 19b apply only to teachers of non-self-contained classes. If you teach a self-contained class, please**  
35 **darken this oval** ○ **and skip to question 20.** What is the usual schedule and length (in minutes) of daily class meetings  
34 for this class? If the weekly schedule is normally the same, just complete Week 1, as in Example 1. If you are unable to  
33 describe this class in the format below, please attach a separate piece of paper with your description.  
32

	Week 1	Week 2
27	_____	_____
26	_____	_____
25	_____	_____
24	_____	_____
23	_____	_____
22	_____	_____
21	_____	_____
20	_____	_____
19	_____	_____

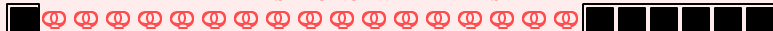
Examples			
Example 1		Example 2	
Week 1	Week 2	Week 1	Week 2
45	_____	90	_____
45	_____	_____	90
45	_____	90	_____
45	_____	_____	90
45	_____	90	_____

For office use only

<input type="text"/>	(1)	(4)	(2)	(3)	(4)	(8)	(3)	(7)	(8)	(4)
<input type="text"/>	(4)	(4)	(2)	(3)	(4)	(8)	(3)	(7)	(8)	(4)
<input type="text"/>	(4)	(4)	(2)	(3)	(4)	(8)	(3)	(7)	(8)	(9)

10 19b. What is the calendar duration of this science class? (Darken one oval.)

- 8 ○ Year  
7 ○ Semester  
6 ○ Quarter



[SERIAL]

20. Are students assigned to this class by level of ability? (Darken one oval.)  Yes  No

21. Which of the following best describes the ability of the students in this class relative to other students in this school? (Darken one oval.)

- Fairly homogeneous and low in ability
- Fairly homogeneous and average in ability
- Fairly homogeneous and high in ability
- Heterogeneous, with a mixture of two or more ability levels

22. Indicate if any of the students in this science class are **formally** classified as each of the following: (Darken all that apply.)

- Limited English Proficiency
- Learning Disabled
- Mentally Handicapped
- Physically Handicapped, please specify handicap(s): \_\_\_\_\_

23. Think about your plans for this science class for the entire course. How much emphasis will each of the following **student objectives** receive? (Darken one oval on each line.)

	None	Minimal Emphasis	Moderate Emphasis	Heavy Emphasis
a. Increase students' interest in science	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
b. Learn basic science concepts	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Learn important terms and facts of science	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Learn science process/inquiry skills	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Prepare for further study in science	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Learn to evaluate arguments based on scientific evidence	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Learn how to communicate ideas in science effectively	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Learn about the applications of science in business and industry	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. Learn about the relationship between science, technology, and society	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. Learn about the history and nature of science	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k. Prepare for standardized tests	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. About how often do **you** do each of the following in your science instruction? (Darken one oval on each line.)

	Never	Rarely (e.g., a few times a year)	Sometimes (e.g., once or twice a month)	Often (e.g., once or twice a week)	All or almost all science lessons
a. Introduce content through formal presentations	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
b. Pose open-ended questions	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Engage the whole class in discussions	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Require students to supply evidence to support their claims	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Ask students to explain concepts to one another	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Ask students to consider alternative explanations	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Allow students to work at their own pace	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Help students see connections between science and other disciplines	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. Assign science homework	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. Read and comment on the reflections students have written, e.g., in their journals	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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25. About how often do students in this science class take part in the following types of activities? (Darken one oval on each line.)

	Never	Rarely (e.g., a few times a year)	Sometimes (e.g., once or twice a month)	Often (e.g., once or twice a week)	All or almost all science lessons
a. Listen and take notes during presentation by teacher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Watch a science demonstration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Work in groups	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Read from a science textbook in class	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Read other (non-textbook) science-related materials in class	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Do hands-on/laboratory science activities or investigations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Follow specific instructions in an activity or investigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Design or implement their <i>own</i> investigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. Participate in field work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. Answer textbook or worksheet questions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k. Record, represent, and/or analyze data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
l. Write reflections (e.g., in a journal)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
m. Prepare written science reports	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
n. Make formal presentations to the rest of the class	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
o. Work on extended science investigations or projects (a week or more in duration)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
p. Use computers as a tool (e.g., spreadsheets, data analysis)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
q. Use mathematics as a tool in problem-solving	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
r. Take field trips	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
s. Watch audiovisual presentations (e.g., videotapes, CD-ROMs, videodiscs, television programs, films, or filmstrips)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

26. About how often do students in this science class use **computers** to: (Darken one oval on each line.)

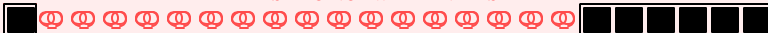
	Never	Rarely (e.g., a few times a year)	Sometimes (e.g., once or twice a month)	Often (e.g., once or twice a week)	All or almost all science lessons
a. Do drill and practice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Demonstrate scientific principles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Play science learning games	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Do laboratory simulations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Collect data using sensors or probes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Retrieve or exchange data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Solve problems using simulations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Take a test or quiz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

27. How often do you assess student progress in science in each of the following ways? (Darken one oval on each line.)

	Never	Rarely (e.g., a few times a year)	Sometimes (e.g., once or twice a month)	Often (e.g., once or twice a week)	All or almost all science lessons
a. Conduct a pre-assessment to determine what students already know.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Observe students and ask questions as they work individually.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Observe students and ask questions as they work in small groups.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Ask students questions during large group discussions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Use assessments embedded in class activities to see if students are "getting it"	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Review student homework.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Review student notebooks/journals.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Review student portfolios.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Question 27 continues on next page...

PLEASE DO NOT WRITE IN THIS AREA



[SERIAL]

27. continued...

	Never	Rarely (e.g., a few times a year)	Sometimes (e.g., once or twice a month)	Often (e.g., once or twice a week)	All or almost all science lessons
i. Have students do long-term science projects.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. Have students present their work to the class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k. Give predominantly short-answer tests (e.g., multiple choice, true/false, fill in the blank).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
l. Give tests requiring open-ended responses (e.g., descriptions, explanations).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
m. Grade student work on open-ended and/or laboratory tasks using defined criteria (e.g., a scoring rubric).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
n. Have students assess each other (peer evaluation).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

28. For the following equipment, please indicate the extent to which each is available, whether or not each is needed, and the extent to which each is integrated in this science class.

	Not at all Available	Readily Available	Needed?	Never use in this course	Use in specific parts of this course	Fully integrated into this course
a. Overhead projector	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Videotape player	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Videodisc player	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. CD-ROM player	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Four-function calculators	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Fraction calculators	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Graphing calculators	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Scientific calculators	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. Computers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. Computers with Internet connection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k. Calculator/computer lab interfacing devices	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
l. Running water in labs/classrooms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
m. Electric outlets in labs/classrooms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
n. Gas for burners in labs/classrooms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
o. Hoods or air hoses in labs/classrooms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

29. How much of your own money do you estimate you will spend for supplies for this science class this school year (or semester or quarter if not a full-year course)? (Please enter your answer as a 3-digit number rounded to the nearest dollar, i.e., enter \$25.19 as 025. Enter your answer in the spaces to the right, then darken the corresponding oval in each column. )

\$

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If none, darken this oval:

30. How much of your own money do you estimate you will spend for your own professional development activities during the period Sept. 1, 1999 - Aug. 31, 2000? (Please enter your answer as a 3-digit number rounded to the nearest dollar, i.e., enter \$25.19 as 025. Enter your answer in the spaces to the right, then darken the corresponding oval in each column. )

\$

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If none, darken this oval:

63	31. How much control do you have over each of the following for this science class? (Darken one oval on each line.)								
62									
61									
60	a. Determining course goals and objectives	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
59	b. Selecting textbooks/instructional programs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
58	c. Selecting other instructional materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
57	d. Selecting content, topics, and skills to be taught	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
56	e. Selecting the sequence in which topics are covered	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
55									
54	f. Setting the pace for covering topics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
53	g. Selecting teaching techniques	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
52	h. Determining the amount of homework to be assigned	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
51	i. Choosing criteria for grading students	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
50	j. Choosing tests for classroom assessment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

47 32. How much science homework do you assign to this science class in a typical **week**? (Darken one oval.)

46

45  0-30 min     31-60 min     61-90 min     91-120 min     2-3 hours     More than 3 hours

44

42 33a. Are you using one or more commercially published textbooks or programs for teaching science to this class? (Darken one oval.)

41

40

39  No, SKIP TO SECTION D, PAGE 14

38  Yes, CONTINUE WITH 33b

37

35 33b. Which best describes your use of textbooks/programs in this class? (Darken one oval.)

34

33  Use one textbook or program all or most of the time

32  Use multiple textbooks/programs

31

29 34. Indicate the publisher of the **one** textbook/program used **most often** by students in this class. (Darken one oval.)

28

- |                          |  |                          |                                      |
|--------------------------|--|--------------------------|--------------------------------------|
| 27 <input type="radio"/> | Addison Wesley Longman, Inc/Scott Foresman   | 45 <input type="radio"/> | Modern Curriculum Press              |
| 26 <input type="radio"/> | Benjamin/Cummings Publishing Company, Inc.   | 46 <input type="radio"/> | Mosby/The C.V. Mosby Company         |
| 25 <input type="radio"/> | Brooks/Cole Publishing Co  | 48 <input type="radio"/> | Nystrom                              |
| 24 <input type="radio"/> | Carolina Biological Supply Co  | 49 <input type="radio"/> | Optical Data Corporation             |
| 23 <input type="radio"/> | Delta Education  | 50 <input type="radio"/> | Prentice Hall, Inc.                  |
| 22 <input type="radio"/> | Encyclopaedia Britannica   | 51 <input type="radio"/> | Saxon Publishers                     |
| 21 <input type="radio"/> | Globe Fearon, Inc / Cambridge  | 52 <input type="radio"/> | Scholastic, Inc.                     |
| 20 <input type="radio"/> | Harcourt Brace/Harcourt, Brace & Jovanovich  | 53 <input type="radio"/> | Silver Burdett Ginn                  |
| 19 <input type="radio"/> | Holt, Rinehart and Winston, Inc  | 54 <input type="radio"/> | South-Western Educational Publishing |
| 18 <input type="radio"/> | Houghton Mifflin Company/McDougal Littell/D.C. Heath   | 55 <input type="radio"/> | Steck-Vaughn Company                 |
| 17 <input type="radio"/> | It's About Time  | 56 <input type="radio"/> | Videodiscovery, Inc                  |
| 16 <input type="radio"/> | J.M. LeBel Enterprises   | 57 <input type="radio"/> | W.H. Freeman                         |
| 15 <input type="radio"/> | Kendall Hunt Publishing  | 58 <input type="radio"/> | Wadsworth Publishing                 |
| 14 <input type="radio"/> | Lawrence Hall of Science   |                          |                                      |
| 13 <input type="radio"/> | McGraw-Hill/Merrill Co (including CTB/McGraw-Hill,<br>Charles Merrill Publishing, Glencoe/McGraw-Hill,<br>Macmillan/McGraw-Hill, McGraw-Hill School<br>Division, Merrill/Glencoe, SRA/McGraw-Hill) | 59 <input type="radio"/> | Other, please specify:<br>_____      |

PLEASE DO NOT WRITE IN THIS AREA



[SERIAL]

35a. Please indicate the title, author, and publication year of the **one** textbook/program used **most often** by students in this class.

Title: \_\_\_\_\_

First Author: \_\_\_\_\_

Publication Year: \_\_\_\_\_ Edition: \_\_\_\_\_

For office use only

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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35b. Approximately what percentage of this textbook/program will you "cover" in this course? (Darken one oval.)

- < 25%     25-49%     50-74%     75-90%     >90%

35c. How would you rate the overall quality of this textbook/program? (Darken one oval.)

- Very Poor     Poor     Fair     Good     Very Good     Excellent

**D. Your Most Recent Science Lesson in This Class**

Questions 36-38 refer to the last time you taught science to this class. Do not be concerned if this lesson was not typical of instruction in this class. (Please enter your answers as 3-digit numbers, i.e., if 30 minutes, enter as 030. Enter your answers in the spaces provided, then darken the corresponding oval in each column.)

36a. How many minutes were allocated to the most recent science lesson? (Note: Teachers in departmentalized and other non-self-contained settings should answer for the entire length of the class period, even if there were interruptions.)

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36b. Of these, how many minutes were spent on the following: (The sum of the numbers in 1.-6. below should equal your response in 36a.)

1. Daily routines, interruptions, and other non-instructional activities

2. Whole class lecture/discussions

3. Individual students reading textbooks, completing worksheets, etc.

4. Working with hands-on, manipulative, or laboratory materials

5. Non-laboratory small group work

6. Other

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37. Which of the following activities took place during that science lesson? (Darken all that apply.)

- Lecture
- Discussion
- Students completing textbook/worksheet problems
- Students doing hands-on/laboratory activities
- Students reading about science
- Students working in small groups
- Students using calculators
- Students using computers
- Students using other technologies
- Test or quiz
- None of the above

38. Did that lesson take place on the most recent day you met with that class?  Yes  No

### E. Demographic Information

39. Indicate your sex:

- Male
- Female

40. Are you: (Darken all that apply)

- American Indian or Alaskan Native
- Asian
- Black or African-American
- Hispanic or Latino
- Native Hawaiian or Other Pacific Islander
- White

41. In what year were you born? (Enter the last two digits of the year you were born; e.g., if you were born in 1959, enter 59. Please enter your answer in the spaces to the right, then darken the corresponding oval in each column.)

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42. How many years have you taught at the K-12 level prior to this school year? (Please enter your answer in the spaces to the right, then darken the corresponding oval in each column.)

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43. If you have an email address, please write it here: \_\_\_\_\_

44. When did you complete this questionnaire? Date: \_\_\_/\_\_\_/\_\_\_  
Month Day Year

Please make a photocopy of this questionnaire and keep it in case the original is lost in the mail. Please return the original to:

2000 National Survey of Science and Mathematics Education  
Westat  
1650 Research Blvd.  
TB120F  
Rockville, MD 20850

**THANK YOU!**

FOR OFFICE USE ONLY  
Please do not write in this area.

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PLEASE DO NOT WRITE IN THIS AREA

[SERIAL]



# 2000 National Survey of Science and Mathematics Education



## Mathematics Questionnaire

**You have been selected to answer questions about your mathematics instruction. If you do not currently teach mathematics, please call us toll-free at 1-800-937-8288.**

### How to Complete the Questionnaire

Most of the questions instruct you to "darken one" answer or "darken all that apply." For a few questions, you are asked to write in your answer on the line provided. Please use a #2 pencil or blue or black pen to complete this questionnaire. Darken ovals completely, but do not stray into adjacent ovals. Be sure to erase or white out completely any stray marks.

### Class Selection

Part of the questionnaire (sections C and D) asks you to provide information about instruction in a particular class. If you teach mathematics to more than one class, use the label at the right to determine the mathematics class that has been randomly selected for you to answer about. (If your teaching schedule varies by day, use today's schedule, or if today is not a school day, use the most recent school day.)

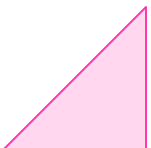
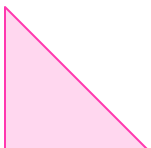
### If You Have Questions

If you have questions about the study or any items in the questionnaire, call us toll-free at 1-800-937-8288.

Each participating school will receive a voucher for \$50 worth of science and mathematics materials. The voucher will be augmented by \$15 for each responding teacher. In addition, each participating school will receive a copy of the study's results in the spring of 2001.

Thank you very much. Your participation is greatly appreciated. Please return the completed questionnaire to us in the postage-paid envelope:

*2000 National Survey of Science and Mathematics Education  
Westat  
1650 Research Blvd.  
TB120F  
Rockville, MD 20850*



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### A. Teacher Opinions

1. Please provide your opinion about each of the following statements.  
(Darken one oval on each line.)

	Strongly Disagree	Disagree	No Opinion	Agree	Strongly Agree
a. Students learn mathematics best in classes with students of similar abilities.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. The testing program in my state/district dictates what mathematics content I teach.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. I enjoy teaching mathematics.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. I consider myself a "master" mathematics teacher.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. I have time during the regular school week to work with my colleagues on mathematics curriculum and teaching.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. My colleagues and I regularly share ideas and materials related to mathematics teaching.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Mathematics teachers in this school regularly observe each other teaching classes as part of sharing and improving instructional strategies.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Most mathematics teachers in this school contribute actively to making decisions about the mathematics curriculum.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2a. How familiar are you with the NCTM *Standards*? (Darken one oval.)

- Not at all familiar, SKIP TO QUESTION 3
- Somewhat familiar
- Fairly familiar
- Very familiar

2b. Please indicate the extent of your agreement with the overall vision of mathematics education described in the NCTM *Standards*. (Darken one oval.)

Strongly Disagree	Disagree	No Opinion	Agree	Strongly Agree
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2c. To what extent have you implemented recommendations from the NCTM *Standards* in your mathematics teaching? (Darken one oval.)

Not at all	To a minimal extent	To a moderate extent	To a great extent
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

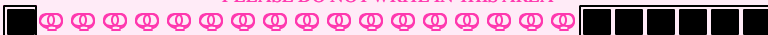
### B. Teacher Background

3. Please indicate how well prepared you currently feel to do each of the following in your mathematics instruction. (Darken one oval on each line.)

	Not Adequately Prepared	Somewhat Prepared	Fairly Well Prepared	Very Well Prepared
a. Take students' prior understanding into account when planning curriculum and instruction	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Develop students' conceptual understanding of mathematics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Provide deeper coverage of fewer mathematics concepts	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Make connections between mathematics and other disciplines	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Lead a class of students using investigative strategies	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Manage a class of students engaged in hands-on/project-based work	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Have students work in cooperative learning groups	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Listen/ask questions as students work in order to gauge their understanding	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. Use the textbook as a resource rather than the primary instructional tool	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. Teach groups that are heterogeneous in ability	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k. Teach students who have limited English proficiency	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
l. Recognize and respond to student cultural diversity	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
m. Encourage students' interest in mathematics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
n. Encourage participation of females in mathematics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
o. Encourage participation of minorities in mathematics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Question 3 continues on next page...

PLEASE DO NOT WRITE IN THIS AREA



[SERIAL]

3. *continued...*

	Not Adequately Prepared	Somewhat Prepared	Fairly Well Prepared	Very Well Prepared
p. Involve parents in the mathematics education of their children	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
q. Use calculators/computers for drill and practice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
r. Use calculators/computers for mathematics learning games	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
s. Use calculators/computers to collect and/or analyze data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
t. Use calculators/computers to demonstrate mathematics principles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
u. Use calculators/computers for simulations and applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
v. Use the Internet in your mathematics teaching for general reference	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
w. Use the Internet in your mathematics teaching for data acquisition	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
x. Use the Internet in your mathematics teaching for collaborative projects with classes/individuals in other schools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

4a. Do you have each of the following degrees?

Bachelors	<input type="radio"/>	Yes	<input type="radio"/>	No
Masters	<input type="radio"/>	Yes	<input type="radio"/>	No
Doctorate	<input type="radio"/>	Yes	<input type="radio"/>	No

4b. Please indicate the subject(s) for each of your degrees. (Darken all that apply.)

	Bachelors	Masters	Doctorate
Mathematics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Computer Science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mathematics Education	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Science/Science Education	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Elementary Education	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other Education (e.g., History Education, Special Education)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other, please specify _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

5. Which of the following college courses have you completed? Include both semester hour and quarter hour courses, whether graduate or undergraduate level. Include courses for which you received college credit, even if you took the course in high school. (Darken all that apply.)

MATHEMATICS

- Mathematics for elementary school teachers
- Mathematics for middle school teachers
- Geometry for elementary/middle school teachers
- College algebra/trigonometry/elementary functions
- Calculus
- Advanced calculus
- Real analysis
- Differential equations
- Geometry
- Probability and statistics
- Abstract algebra
- Number theory
- Linear algebra
- Applications of mathematics/problem solving
- History of mathematics
- Discrete mathematics
- Other upper division mathematics

SCIENCES/COMPUTER SCIENCES

- Biological sciences
- Chemistry
- Physics
- Physical science
- Earth/space science
- Engineering (any)
- Computer programming
- Other computer science

EDUCATION

- General methods of teaching
- Methods of teaching mathematics
- Instructional uses of computers/other technologies
- Supervised student teaching in mathematics

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6. For each of the following subject areas, indicate the number of college semester and quarter courses you have completed. Count each course you have taken, regardless of whether it was a graduate or undergraduate course. If your transcripts are not available, provide your best estimates.

	Semester Courses										Quarter Courses									
a. Mathematics education	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Calculus	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Statistics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Advanced calculus	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. All other mathematics courses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Computer science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

7. Considering all of your undergraduate and graduate **mathematics** courses, approximately what percentage were completed at each of the following types of institutions? (Darken one oval on each line.)

	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
a. Two-year college/community college/technical school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Four-year college/university	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

8. In what year did you last take a formal course for college credit in: (Please enter your answers in the spaces provided, then darken the corresponding oval in each column.)

a. Mathematics

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

b. The Teaching of Mathematics

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you have never taken a course in the teaching of mathematics, darken this oval  and go to question 9.

9. What is the **total** amount of time you have spent on professional development in mathematics or the teaching of mathematics in the last 12 months? in the last 3 years? (Include attendance at professional meetings, workshops, and conferences, but **do not** include formal courses for which you received college credit or time you spent **providing** professional development for other teachers.) (Darken one oval in each column.)

<u>Hours of In-service Education</u>	Last 12 months	Last 3 years
None	<input type="radio"/>	<input type="radio"/>
Less than 6 hours	<input type="radio"/>	<input type="radio"/>
6-15 hours	<input type="radio"/>	<input type="radio"/>
16-35 hours	<input type="radio"/>	<input type="radio"/>
More than 35 hours	<input type="radio"/>	<input type="radio"/>

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[SERIAL]

10. In the past **12 months**, have you:  
(Darken one oval on each line.)

- |   |                                      |                                     |
|---|--------------------------------------|-------------------------------------|
| a. Taught any in-service workshops in mathematics or mathematics teaching?  | <input checked="" type="radio"/> Yes | <input type="radio"/> No            |
| b. Mentored another teacher as part of a formal arrangement that is recognized or supported by the school or district, not including supervision of student teachers? | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> No |
| c. Received any local, state, or national grants or awards for mathematics teaching?  | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> No |
| d. Served on a school or district mathematics curriculum committee?   | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> No |
| e. Served on a school or district mathematics textbook selection committee?   | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> No |

11. In the past **3 years**, have you participated in any of the following activities related to mathematics or the teaching of mathematics? (Darken one oval on each line.)

- |  |                                      |                                     |
|--|--------------------------------------|-------------------------------------|
| a. Taken a formal college/university mathematics course. (Please do not include courses taken as part of your undergraduate degree.)   | <input checked="" type="radio"/> Yes | <input type="radio"/> No            |
| b. Taken a formal college/university course in the teaching of mathematics. (Please do not include courses taken as part of your undergraduate degree.)  | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> No |
| c. Observed other teachers teaching mathematics as part of your own professional development (formal or informal).   | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> No |
| d. Met with a local group of teachers to study/discuss mathematics teaching issues on a regular basis.   | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> No |
| e. Collaborated on mathematics teaching issues with a group of teachers at a distance using telecommunications.  | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> No |
| f. Served as a mentor and/or peer coach in mathematics teaching, as part of a formal arrangement that is recognized or supported by the school or district. (Please do not include supervision of student teachers.) | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> No |
| g. Attended a workshop on mathematics teaching.  | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> No |
| h. Attended a national or state mathematics teacher association meeting.   | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> No |
| i. Applied or applying for certification from the National Board for Professional Teaching Standards (NBPTS).  | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> No |
| j. Received certification from the National Board for Professional Teaching Standards (NBPTS).   | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> No |

**Questions 12a-12c ask about your professional development in the last 3 years. If you have been teaching for fewer than 3 years, please answer for the time that you have been teaching.**

12a. Think back to **3 years ago**. How would you rate your level of need for professional development in each of these areas *at that time*? (Darken one oval on each line.)

	<u>None Needed</u>	<u>Minor Need</u>	<u>Moderate Need</u>	<u>Substantial Need</u>
Deepening my own mathematics content knowledge	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Understanding student thinking in mathematics	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Learning how to use inquiry/investigation-oriented teaching strategies	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Learning how to use technology in mathematics instruction	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Learning how to assess student learning in mathematics	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Learning how to teach mathematics in a class that includes students with special needs	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>

63 12b. Considering all the professional development you have participated in **during the last 3 years**, how much was each of the  
 62 following emphasized? (Darken one oval on each line.)

	Not at all			To a great extent
61	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
60	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
59	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
58	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
57	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
56	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
55	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
54	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
53	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

49 12c. Considering all your professional development in the **last 3 years**, how would you rate its  
 48 impact in each of these areas? (Darken one oval on each line.)

	Little or no impact	Confirmed what I was already doing	Caused me to change my teaching practices
47	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
46	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
45	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
44	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
43	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
42	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
41	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
40	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
39	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
38	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

34 13a. Do you teach in a **self-contained class**? (i.e., you teach multiple subjects to the same class of students all or most of the day.)

- 33  Yes, CONTINUE WITH QUESTIONS 13b AND 13c
- 32  No, SKIP TO QUESTION 14

26 13b. **For teachers of self-contained classes:** Many teachers feel better qualified to teach some subject areas than others. How well  
 25 qualified do you feel to teach each of the following subjects **at the grade level(s) you teach**, whether or not they are currently  
 24 included in your curriculum? (Darken one oval on each line.)

	Not Well Qualified	Adequately Qualified	Very Well Qualified
23	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
22	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
21	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
20	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
19	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
18	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
17	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
16	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

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[SERIAL]

- 13c. **For teachers of self-contained classes:** We are interested in knowing how much time your students spend studying various subjects. In a typical week, how many days do you have lessons on each of the following subjects, and how many minutes long is an average lesson? (Please indicate "0" if you do not teach a particular subject to this class. Please enter your answer in the spaces provided, then darken the corresponding oval in each column. Enter the number of minutes as a 3-digit number; e.g., if 30 minutes, enter as 030.)

Mathematics		Science		Social Studies		Reading/Language Arts	
Days Per Week	Approximate Minutes Per Day	Days Per Week	Approximate Minutes Per Day	Days Per Week	Approximate Minutes Per Day	Days Per Week	Approximate Minutes Per Day
<input type="radio"/> 0	<input type="radio"/> 000	<input type="radio"/> 0	<input type="radio"/> 000	<input type="radio"/> 0	<input type="radio"/> 000	<input type="radio"/> 0	<input type="radio"/> 000
<input type="radio"/> 1	<input type="radio"/> 000	<input type="radio"/> 1	<input type="radio"/> 000	<input type="radio"/> 1	<input type="radio"/> 000	<input type="radio"/> 1	<input type="radio"/> 000
<input type="radio"/> 2	<input type="radio"/> 000	<input type="radio"/> 2	<input type="radio"/> 000	<input type="radio"/> 2	<input type="radio"/> 000	<input type="radio"/> 2	<input type="radio"/> 000
<input type="radio"/> 3	<input type="radio"/> 000	<input type="radio"/> 3	<input type="radio"/> 000	<input type="radio"/> 3	<input type="radio"/> 000	<input type="radio"/> 3	<input type="radio"/> 000
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**NOW GO TO SECTION C, PAGE 8.**

14. Which of these categories best describes the way **your** classes at this school are organized? (Darken one oval.)

- a. **Departmentalized Instruction**—you teach subject matter courses (including mathematics, and perhaps other courses) to several different classes of students all or most of the day.
- b. **Elementary Enrichment Class**—you teach only mathematics in an elementary school.
- c. **Team Teaching**—you collaborate with one or more teachers in teaching multiple subjects to the same class of students; your assignment includes mathematics.

- 15a. **For teachers of non-self-contained classes:** Within mathematics, many teachers feel better qualified to teach some topics than others. How well qualified do you feel to teach each of the following topics **at the grade level(s) you teach**, whether or not they are currently included in your curriculum? (Darken one oval on each line.)

	Not Well Qualified	Adequately Qualified	Very Well Qualified
a. Numeration and number theory	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
b. Computation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Estimation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Measurement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Pre-algebra	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Algebra	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Patterns and relationships	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Geometry and spacial sense	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. Functions (including trigonometric functions) and pre-calculus concepts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. Data collection and analysis	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
k. Probability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
l. Statistics (e.g., hypothesis tests, curve fitting and regression)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
m. Topics from discrete mathematics (e.g., combinatorics, graph theory, recursion)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
n. Mathematical structures (e.g., vector spaces, groups, rings, fields)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
o. Calculus	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
p. Technology (calculators, computers) in support of mathematics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



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15b. **For teachers of non-self-contained classes:** For each class period you are currently teaching, regardless of the subject, give *course title*, the *code-number* from the enclosed blue "List of Course Titles" that best describes the content addressed in the class, and the *number of students* in the class. (Please enter your answers in the spaces provided, then darken the corresponding oval in each column. **If you teach more than one section of a course, record each section separately below.**)

- Note that if you have more than 39 students in any class, you will not be able to darken the ovals, but you should still write the number in the boxes.
- If you teach more than 6 classes per day, please provide the requested information for the additional classes on a separate sheet of paper.

Course Title	Course Title	Course Title
Code #	# of Students	Code #
# of Students	Code #	# of Students
Code #	# of Students	Code #
# of Students	Code #	# of Students
Code #	# of Students	Code #
# of Students	Code #	# of Students
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Course Title	Course Title	Course Title
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Code #	# of Students	Code #
# of Students	Code #	# of Students

### C. Your Mathematics Teaching in a Particular Class

The questions in this section are about a particular mathematics class you teach. **If you teach mathematics to more than one class per day, please consult the label on the front of this questionnaire to determine which mathematics class to use to answer these questions.**

16. Using the blue "List of Course Titles," indicate the code number that best describes this course. Please enter your answer in the spaces to the right, then darken the corresponding oval in each column. (If "other" [Code 299], briefly describe content of course:

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Code #

0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9

- 17a. Are all students in this class in the same grade?

Yes, specify grade:

THEN SKIP TO QUESTION 18a

No, CONTINUE WITH QUESTION 17b

- 17b. What grades are represented in this class? (Darken all that apply.) For each grade noted, indicate the number of students in this class in that grade. Write your answer in the space provided, then darken the corresponding oval in each column. **Note that if more than 39 students in this class are in a single grade, you will not be able to darken the ovals, but you should still write the number in the boxes.**

	K		1		2		3		4		5		6		7		8		9		10		11		12
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
1	1	1	1	1	1	1	1	1	1	1	1	1	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	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	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	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	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	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	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	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	9	9	9	9	9	9	9	9	9	9	9	9	9

- 18a. What is the total number of students in this class? Write your answer in the space provided, then darken the corresponding oval in each column. **Note that if you have more than 39 students in this class, you will not be able to darken the ovals, but you should still write the number in the boxes.**

0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

63 18b. Please indicate the number of students in this class in each of the following categories. Consult the enclosed federal guidelines  
 62 at the end of the course list (blue sheet) if you have any questions about how to classify particular students. (Please enter your  
 61 answers in the spaces provided, then darken the corresponding oval in each column.)  
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 59  
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 57

RACE/ETHNICITY

American Indian or Alaskan Native		Asian		Black or African-American		Hispanic or Latino (any race)		Native Hawaiian or Other Pacific Islander		White	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
56											
55											
54											
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51											
50	11	11	11	11	11	11	11	11	11	11	11
49	11	11	11	11	11	11	11	11	11	11	11
48	12	12	12	12	12	12	12	12	12	12	12
47	13	13	13	13	13	13	13	13	13	13	13
46	14	14	14	14	14	14	14	14	14	14	14
45	15	15	15	15	15	15	15	15	15	15	15
44	16	16	16	16	16	16	16	16	16	16	16
43	17	17	17	17	17	17	17	17	17	17	17
42	18	18	18	18	18	18	18	18	18	18	18
41	19	19	19	19	19	19	19	19	19	19	19
40											
39											
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37 19a. Questions 19a and 19b apply only to teachers of non-self-contained classes. If you teach a self-contained class, please  
 36 darken this oval  and skip to question 20. What is the usual schedule and length (in minutes) of daily class meetings for  
 35 this class? If the weekly schedule is normally the same, just complete Week 1, as in Example 1. If you are unable to describe  
 34 this class in the format below, please attach a separate piece of paper with your description.  
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	Week 1	Week 2
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27		
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Examples			
Example 1		Example 2	
Week 1	Week 2	Week 1	Week 2
45		90	
45			90
45		90	
45			90
45		90	

For office use only

	11	11	11	11	11	11	11	11	11	11	11
	11	11	11	11	11	11	11	11	11	11	11
	11	11	11	11	11	11	11	11	11	11	11

11 19b. What is the calendar duration of this mathematics class? (Darken one oval.)  
 10  
 9

- Year
- Semester
- Quarter

20. Are students assigned to this class by level of ability? (Darken one oval.)  Yes  No

21. Which of the following best describes the ability of the students in this class relative to other students in this school? (Darken one oval.)

- Fairly homogeneous and low in ability
- Fairly homogeneous and average in ability
- Fairly homogeneous and high in ability
- Heterogeneous, with a mixture of two or more ability levels

22. Indicate if any of the students in this mathematics class are **formally** classified as each of the following: (Darken all that apply.)

- Limited English Proficiency
- Learning Disabled
- Mentally Handicapped
- Physically Handicapped, please specify handicap(s): \_\_\_\_\_

23. Think about your plans for this mathematics class for the entire course. How much emphasis will each of the following **student objectives** receive? (Darken one oval on each line.)

	None	Minimal Emphasis	Moderate Emphasis	Heavy Emphasis
a. Increase students' interest in mathematics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
b. Learn mathematical concepts	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
c. Learn mathematical algorithms/procedures	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
d. Develop students' computational skills	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
e. Learn how to solve problems	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
f. Learn to reason mathematically	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
g. Learn how mathematics ideas connect with one another	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
h. Prepare for further study in mathematics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
i. Understand the logical structure of mathematics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
j. Learn about the history and nature of mathematics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
k. Learn to explain ideas in mathematics effectively	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
l. Learn how to apply mathematics in business and industry	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
m. Learn to perform computations with speed and accuracy	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
n. Prepare for standardized tests	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

24. About how often do **you** do each of the following in your mathematics instruction? (Darken one oval on each line.)

	Never	Rarely (e.g., a few times a year)	Sometimes (e.g., once or twice a month)	Often (e.g., once or twice a week)	All or almost all mathematics lessons
a. Introduce content through formal presentations	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
b. Pose open-ended questions	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
c. Engage the whole class in discussions	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
d. Require students to explain their reasoning when giving an answer	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
e. Ask students to explain concepts to one another	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
f. Ask students to consider alternative methods for solutions	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
g. Ask students to use multiple representations (e.g., numeric, graphic, geometric, etc.)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
h. Allow students to work at their own pace	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
i. Help students see connections between mathematics and other disciplines	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
j. Assign mathematics homework	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
k. Read and comment on the reflections students have written, e.g., in their journals	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

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25. About how often do students in this **mathematics** class take part in the following types of activities? (Darken one oval on each line.)

	Never	Rarely (e.g., a few times a year)	Sometimes (e.g., once or twice a month)	Often (e.g., once or twice a week)	All or almost all mathematics lessons
a. Listen and take notes during presentation by teacher	1	2	3	4	5
b. Work in groups	1	2	3	4	5
c. Read from a mathematics textbook in class	1	2	3	4	5
d. Read other (non-textbook) mathematics-related materials in class	1	2	3	4	5
e. Engage in mathematical activities using concrete materials	1	2	3	4	5
f. Practice routine computations/algorithms	1	2	3	4	5
g. Review homework/worksheet assignments	1	2	3	4	5
h. Follow specific instructions in an activity or investigation	1	2	3	4	5
i. Design their <i>own</i> activity or investigation	1	2	3	4	5
j. Use mathematical concepts to interpret and solve applied problems	1	2	3	4	5
k. Answer textbook or worksheet questions	1	2	3	4	5
l. Record, represent, and/or analyze data	1	2	3	4	5
m. Write reflections (e.g., in a journal)	1	2	3	4	5
n. Make formal presentations to the rest of the class	1	2	3	4	5
o. Work on extended mathematics investigations or projects (a week or more in duration)	1	2	3	4	5
p. Use calculators or computers for learning or practicing skills	1	2	3	4	5
q. Use calculators or computers to develop conceptual understanding	1	2	3	4	5
r. Use calculators or computers as a tool (e.g., spreadsheets, data analysis)	1	2	3	4	5

26. About how often do students in this mathematics class use **calculators/computers** to: (Darken one oval on each line.)

	Never	Rarely (e.g., a few times a year)	Sometimes (e.g., once or twice a month)	Often (e.g., once or twice a week)	All or almost all mathematics lessons
a. Do drill and practice	1	2	3	4	5
b. Demonstrate mathematics principles	1	2	3	4	5
c. Play mathematics learning games	1	2	3	4	5
d. Do simulations	1	2	3	4	5
e. Collect data using sensors or probes	1	2	3	4	5
f. Retrieve or exchange data	1	2	3	4	5
g. Solve problems using simulations	1	2	3	4	5
h. Take a test or quiz	1	2	3	4	5

27. How often do you assess student progress in mathematics in each of the following ways? (Darken one oval on each line.)

	Never	Rarely (e.g., a few times a year)	Sometimes (e.g., once or twice a month)	Often (e.g., once or twice a week)	All or almost all mathematic lessons
a. Conduct a pre-assessment to determine what students already know.	1	2	3	4	5
b. Observe students and ask questions as they work individually.	1	2	3	4	5
c. Observe students and ask questions as they work in small groups.	1	2	3	4	5
d. Ask students questions during large group discussions.	1	2	3	4	5
e. Use assessments embedded in class activities to see if students are "getting it"	1	2	3	4	5
f. Review student homework.	1	2	3	4	5
g. Review student notebooks/journals.	1	2	3	4	5
h. Review student portfolios.	1	2	3	4	5
i. Have students do long-term mathematics projects.	1	2	3	4	5
j. Have students present their work to the class.	1	2	3	4	5
k. Give predominantly short-answer tests (e.g., multiple choice, true/false, fill in the blank).	1	2	3	4	5

Question 27 continues on next page...

27. *continued*

	Never	Rarely (e.g., a few times a year)	Sometimes (e.g., once or twice a month)	Often (e.g., once or twice a week)	All or almost all mathematics lessons
l. Give tests requiring open-ended responses (e.g., descriptions, explanations).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
m. Grade student work on open-ended and/or laboratory tasks using defined criteria (e.g., a scoring rubric).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
n. Have students assess each other (peer evaluation).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

28. For the following equipment, please indicate the extent to which each is available, whether or not each is needed, and the extent to which each is integrated in this mathematics class.

	Not at all Available	Readily Available	Needed?	Never use in this course	Use in specific parts of this course	Fully integrated into this course
a. Overhead projector	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
b. Videotape player	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
c. Videodisc player	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
d. CD-ROM player	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
e. Four-function calculators	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
f. Fraction calculators	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
g. Graphing calculators	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
h. Scientific calculators	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
i. Computers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
j. Calculator/computer lab interfacing devices	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
k. Computers with Internet connection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

29. How much of your own money do you estimate you will spend for supplies for this mathematics class this school year (or semester or quarter if not a full-year course)? (Please enter your answer as a 3-digit number rounded to the nearest dollar, i.e., enter \$25.19 as 025. Enter your answer in the spaces to the right, then darken the corresponding oval in each column.)

\$

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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If none, darken this oval:

30. How much of your own money do you estimate you will spend for your own professional development activities during the period Sept. 1, 1999 - Aug. 31, 2000? (Please enter your answer as a 3-digit number rounded to the nearest dollar, i.e., enter \$25.19 as 025. Enter your answer in the spaces to the right, then darken the corresponding oval in each column.)

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If none, darken this oval:

31. How much control do you have over each of the following for this mathematics class? (Darken one oval on each line.)

	No Control	Strong Control
a. Determining course goals and objectives	<input type="radio"/>	<input checked="" type="radio"/>
b. Selecting textbooks/instructional programs	<input type="radio"/>	<input checked="" type="radio"/>
c. Selecting other instructional materials	<input type="radio"/>	<input checked="" type="radio"/>
d. Selecting content, topics, and skills to be taught	<input type="radio"/>	<input checked="" type="radio"/>
e. Selecting the sequence in which topics are covered	<input type="radio"/>	<input checked="" type="radio"/>
f. Setting the pace for covering topics	<input type="radio"/>	<input checked="" type="radio"/>
g. Selecting teaching techniques	<input type="radio"/>	<input checked="" type="radio"/>
h. Determining the amount of homework to be assigned	<input type="radio"/>	<input checked="" type="radio"/>
i. Choosing criteria for grading students	<input type="radio"/>	<input checked="" type="radio"/>
j. Choosing tests for classroom assessment	<input type="radio"/>	<input checked="" type="radio"/>

PLEASE DO NOT WRITE IN THIS AREA



[SERIAL]

63 32. How much mathematics homework do you assign to this mathematics class in a typical **week**? (Darken one oval.)

- 62  0-30 min
- 61  31-60 min
- 60  61-90 min
- 59  91-120 min
- 58  2-3 hours
- 57  More than 3 hours

58 33a. Are you using one or more commercially published textbooks or programs for teaching mathematics to this class? (Darken one oval.)

- 57  No, SKIP TO SECTION D, PAGE 14
- 56  Yes, CONTINUE WITH 33b

51 33b. Which best describes your use of textbooks/programs in this class? (Darken one oval.)

- 50  Use one textbook or program all or most of the time
- 49  Use multiple textbooks/programs

45 34. Indicate the publisher of the **one** textbook/program used **most often** by students in this class. (Darken one oval.)

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>44 <input type="radio"/> Addison Wesley Longman, Inc/Scott Foresman</li> <li>43 <input type="radio"/> Brooks/Cole Publishing Co</li> <li>42 <input type="radio"/> CORD Communications</li> <li>41 <input type="radio"/> Creative Publications</li> <li>40 <input type="radio"/> Dale Seymour Publications</li> <li>39 <input type="radio"/> EFA &amp; Associates</li> <li>38 <input type="radio"/> Encyclopaedia Britannica</li> <li>37 <input type="radio"/> Everyday Learning Corporation</li> <li>36 <input type="radio"/> Globe Fearon, Inc / Cambridge</li> <li>35 <input type="radio"/> Harcourt Brace/Harcourt, Brace &amp; Jovanovich</li> <li>34 <input type="radio"/> Holt, Rinehart and Winston, Inc</li> <li>33 <input type="radio"/> Houghton Mifflin Company/McDougal Littell/D.C. Heath</li> <li>32 <input type="radio"/> Kendall Hunt Publishing</li> </ul> | <ul style="list-style-type: none"> <li>43 <input type="radio"/> Key Curriculum Press</li> <li>42 <input type="radio"/> McGraw-Hill/Merrill Co (including CTB/McGraw-Hill, Charles Merrill Publishing, Glencoe/McGraw-Hill, Macmillan/McGraw-Hill, McGraw-Hill School Division, Merrill/Glencoe, SRA/McGraw-Hill)</li> <li>41 <input type="radio"/> Optical Data Corporation</li> <li>40 <input type="radio"/> Prentice Hall, Inc.</li> <li>39 <input type="radio"/> Saxon Publishers</li> <li>38 <input type="radio"/> Silver Burdett Ginn</li> <li>37 <input type="radio"/> South-Western Educational Publishing</li> <li>36 <input type="radio"/> VideoText Interactive</li> <li>35 <input type="radio"/> Wadsworth Publishing</li> <li>34 <input type="radio"/> West Educational Publishing</li> </ul> |
|--|---|

28  Other, please specify: \_\_\_\_\_

24 35a. Please indicate the title, author, and publication year of the **one** textbook/program used **most often** by students in this class.

21 Title: \_\_\_\_\_

19 First Author: \_\_\_\_\_

17 Publication Year: \_\_\_\_\_ Edition: \_\_\_\_\_

For office use only

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13 35b. Approximately what percentage of this textbook/program will you "cover" in this course? (Darken one oval.)

- 12  < 25%
- 11  25-49%
- 10  50-74%
- 9  75-90%
- 8  >90%

7 35c. How would you rate the overall quality of this textbook/program? (Darken one oval.)

- 6  Very Poor
- 5  Poor
- 4  Fair
- 3  Good
- 2  Very Good
- 1  Excellent

### D. Your Most Recent Mathematics Lesson in This Class

Questions 36-38 refer to the last time you taught mathematics to this class. Do not be concerned if this lesson was not typical of instruction in this class. (Please enter your answers as 3-digit numbers, i.e., if 30 minutes, enter as 030. Enter your answers in the spaces provided, then darken the corresponding oval in each column.)

36a. How many minutes were allocated to the most recent mathematics lesson?  
 Note: Teachers in departmentalized and other non-self-contained settings should answer for the entire length of the class period, even if there were interruptions.

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36b. Of these, how many minutes were spent on the following:  
 (The sum of the numbers in 1.-6. below should equal your response in 36a.)

1. Daily routines, interruptions, and other non-instructional activities

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2. Whole class lecture/discussions

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3. Individual students reading textbooks, completing worksheets, etc.

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4. Working with hands-on or manipulative materials

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5. Non-manipulative small group work

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6. Other

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37. Which of the following activities took place during that mathematics lesson? (Darken all that apply.)

- Lecture
- Discussion
- Students completing textbook/worksheet problems
- Students doing hands-on/manipulative activities
- Students reading about mathematics
- Students working in small groups
- Students using calculators
- Students using computers
- Students using other technologies
- Test or quiz
- None of the above

38. Did that lesson take place on the most recent day you met with that class?  Yes  No



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**E. Demographic Information**

39. Indicate your sex:

- Male
- Female

40. Are you: (Darken all that apply.)

- American Indian or Alaskan Native
- Asian
- Black or African-American
- Hispanic or Latino
- Native Hawaiian or Other Pacific Islander
- White

41. In what year were you born?  
 (Enter the last two digits of the year you were born; e.g., if you were born in 1959, enter 59. Please enter your answer in the spaces to the right, then darken the corresponding oval in each column.)

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42. How many years have you taught at the K-12 level prior to this school year? (Please enter your answer in the spaces to the right, then darken the corresponding oval in each column.)

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43. If you have an email address, please write it here: \_\_\_\_\_

44. When did you complete this questionnaire? Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 Month      Day      Year

Please make a photocopy of this questionnaire and keep it in case the original is lost in the mail. Please return the original to:

*2000 National Survey of Science and Mathematics Education  
 Westat  
 1650 Research Blvd.  
 TB120F  
 Rockville, MD 20850*

**THANK YOU!**

FOR OFFICE USE ONLY  
Please do not write in this area.

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# LIST OF COURSE TITLES

## A. SCIENCE COURSES

<u>CODE</u>	<u>Course Category</u>	<u>Sample Course Titles</u>
<b>Grades K – 5</b>		
100	Science, Grade K	
101	Science, Grade 1	
102	Science, Grade 2	
103	Science, Grade 3	
104	Science, Grade 4	
105	Science, Grade 5	
106	Other Elementary Science	
<b>Grades 6 – 8</b>		
108	Life Science	
109	Earth Science	
110	Physical Science	
111	General Science	
112	Integrated Science	
<b>Grades 9 – 12</b>		
<u>Biology</u>		
114	1st Year	Introductory Biology; Biology I; General Biology; College Prep Biology; Honors Biology
115	1st Year, Applied	Basic Biology; Applied Biology; Life Science; Biomedical Education; Animal Science; Horticulture; Biology Science; Health Science; Nutrition; Agriculture Science; Fundamentals of Biology
116	2nd Year, AP	Advanced Placement
117	2nd Year, Advanced	Biology II; Advanced Biology; College Biology; Physiology; Anatomy; Microbiology; Genetics; Cell Biology; Embryology; Molecular Biology; Invertebrate/Vertebrate Biology
118	2nd Year, Other	Zoology; Botany; Bio-Medical Careers; Field Biology; Marine Biology; Other Biological Sciences
<u>Chemistry</u>		
119	1st Year	Introductory Chemistry; Chemistry I; General Chemistry; Honors Chemistry
120	1st Year, Applied	Applied Chemistry; Consumer Chemistry; Technical Chemistry; Practical Chemistry
121	2nd Year, AP	Advanced Placement Chemistry
122	2nd Year, Advanced	Chemistry II; Advanced Chemistry; College Chemistry; Organic Chemistry; Inorganic Chemistry; Physical Chemistry; Biochemistry; Analytical Chemistry
<u>Physics</u>		
123	1st Year	Introductory Physics; Physics I; General Physics; Honors Physics;
124	1st Year, Applied	Applied Physics; Electronics; Radiation Physics; Practical Physics
125	2nd Year, AP	Advanced Placement Physics
126	2nd Year, Advanced	Physics II; Advanced Physics; College Physics; Nuclear Physics; Atomic Physics
127	Physical Science	Physical Science; Interaction of Matter and Energy; Applied Physical Science
<u>Earth Science</u>		
128	Astronomy*	* NOTE: A course that includes substantial content from two or more of the earth sciences should be listed under code 132, 133, or 134.
129	Geology*	
130	Meteorology*	
131	Oceanography/Marine Science*	
132	1st Year	Earth Science; Earth/Space Science; Honors Earth Science
133	1st Year, Applied	Applied Earth Science; Fundamentals of Earth Science; Soil Science
134	2nd Year, Advanced/Other	Advanced Earth Science; Earth Science II
<u>Other Science</u>		
135	General Science	General Science; Basic Science; Introductory Science; Investigations in Science
136	Environmental Science	Ecology; Environmental Science
137	Coordinated Science	Coordinated Science includes content from more than one science discipline, e.g., life and physical science, but keeps the disciplines separate
138	Integrated Science	Integrated Science includes content from the various science disciplines and blurs the distinctions among them
199	Other Science	

*Course titles continue on next page...*

## B. MATHEMATICS COURSES

<u>CODE</u>	<u>Course Category</u>	<u>Sample Course Titles</u>
<b>Grades K – 5</b>		
200	Mathematics, Grade K	
201	Mathematics, Grade 1	
202	Mathematics, Grade 2	
203	Mathematics, Grade 3	
204	Mathematics, Grade 4	
205	Mathematics, Grade 5	
206	Other Elementary Mathematics	
<b>Grades 6 – 8</b>		
208	Remedial Mathematics 6	Remedial Math 6
209	Regular Mathematics 6	Math 6; Math Grade 6 regular
210	Accelerated/Pre-Algebra Mathematics 6	Accelerated Math 6; Pre-Algebra; Honors Math 6; Enriched Math 6;
211	Remedial Mathematics 7	Remedial Math 7
212	Regular Mathematics 7	Math 7; Math Grade 7 regular
213	Accelerated Mathematics 7	Accelerated Math 7; Pre-Algebra; Honors Math 7; Enriched Math 7;
214	Remedial Mathematics 8	Remedial Math 8
215	Regular Mathematics 8	Math 8; Math Grade 8 regular
216	Enriched Mathematics 8	Pre-Algebra; Accelerated Math 8 <sup>1</sup> ; Honors Math 8; Enriched Math 8
217	Algebra 1, Grade 7 or 8	Algebra 1; Beginning Algebra; Elementary Algebra
218	Integrated Middle Grade Math, 7 or 8	Integrated Math 7 or 8; Connected Math 7 or 8
<b>Grades 9 – 12</b>		
<u>Review Mathematics</u>		
219	Rev. Math Level 1	General Math 1; Basic Math; Math 9; Remedial Math; Developmental; High School Arithmetic; Math Comp Test; Comprehensive Math; Terminal Math
220	Rev. Math Level 2	General Math 2; Vocational Math; Consumer; Technical; Business; Shop; Math 10; Career Math; Practical Math; Essential Math; Cultural Math
221	Rev. Math Level 3	General Math 3; Math 11; Intermediate Math;
222	Rev. Math Level 4	General Math 4; Math 12; Mathematics of Consumer Economics
<u>Informal Mathematics</u>		
223	Inf. Math Level 1	Pre-Algebra; Introductory Algebra; Basic; Applications; Algebra 1A (first of a two-year sequence for Algebra 1); Math A; Applied Math 1 <sup>2</sup>
224	Inf. Math Level 2	Basic Geometry; Informal Geometry; Practical Geometry; Applied Math 2
225	Inf. Math Level 3	Applied Math 3, 4
<u>Formal Mathematics</u>		
226	For. Math Level 1	Algebra 1; Elementary; Beginning; Unified Math I; Integrated Math 1; Algebra 1B (second year of a two-year sequence for Algebra 1); Math B
227	For. Math Level 2	Geometry; Plane Geometry; Solid Geometry; Integrated Math 2; Unified Math II; Math C
228	For. Math Level 3	Algebra 2; Intermediate Algebra; Algebra and Trigonometry; Advanced Algebra; Algebra and Analytic Geometry; Integrated Math 3; Unified Math III
229	For. Math Level 4	Algebra 3; Trigonometry; College Algebra; Pre-Calculus; Analytic/Advanced Geometry; Trigonometry and Analytic/Solid Geometry; Advanced Math Topics; Introduction to College Math; Number Theory; Math IV; College Prep Senior Math; Elementary Functions; Finite Math; Math Analysis; Numerical Analysis; Discrete Math; Probability; Statistics
230	For. Math Level 5	Calculus and Analytic Geometry; Calculus; Abstract Algebra; Differential Equations; Multivariate Calculus; Linear Algebra; Theory of Equations; Vectors/Matrix Algebra;
231	For. Math Level 5, AP	Advanced Placement Calculus (AB, BC); Advanced Placement Statistics
<u>Other Mathematics Courses</u>		
232	Probability and Statistics	
233	Mathematics integrated with other subjects	
299	Other Mathematics	

*Course titles continue on next page...*

<sup>1</sup> If Accelerated Math 8 is the same as Algebra 1 in your state, report the data under Math Grade 8, Algebra 1, and not Math Grade 8, Enriched.

<sup>2</sup> If Applied Math course includes some algebra and geometry, report under Informal Math, Level 1. If it does not, report under Review Math, Level 2.

## C. OTHER COURSES

<u>CODE</u>	<u>Course Category</u>
301	Computer Science
302	Social Studies/History
303	English/Language Arts/Reading
304	Business Education
305	Vocational Education
306	Technology Education
307	Foreign Language
308	Health/Physical Education
309	Art/Music/Drama
399	Other subject

### Federally Approved Definitions for Race/Ethnicity Categories

**American Indian or Alaskan Native.** A person having origins in any of the original peoples of North and South America (including Central America), and who maintains tribal affiliation or community attachment.

**Asian.** A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.

**Black or African-American.** A person having origins in any of the black racial groups of Africa.

**Hispanic or Latino.** A person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race.

**Native Hawaiian or Other Pacific Islander.** A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands.

**White.** A person having origins in any of the original peoples of Europe, the Middle East, or North Africa.



# PAEMST Awardee Questionnaire: Science

**Instructions:** Please use a #2 pencil, or a blue or black pen to complete this questionnaire. Darken ovals completely, but do not stray into adjacent ovals. Be sure to erase or white out completely any stray marks.

1. In what year did you receive your Presidential Award?

- |                            |                            |                            |                            |                            |                            |
|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| <input type="radio"/> 1983 | <input type="radio"/> 1986 | <input type="radio"/> 1989 | <input type="radio"/> 1992 | <input type="radio"/> 1995 | <input type="radio"/> 1998 |
| <input type="radio"/> 1984 | <input type="radio"/> 1987 | <input type="radio"/> 1990 | <input type="radio"/> 1993 | <input type="radio"/> 1996 | <input type="radio"/> 1999 |
| <input type="radio"/> 1985 | <input type="radio"/> 1988 | <input type="radio"/> 1991 | <input type="radio"/> 1994 | <input type="radio"/> 1997 |                            |

2. Which best describes your **current primary** occupation? (Darken one oval.)

- a. Retired
- b. Currently not employed
- c. Employed in post-secondary education (e.g., college or university)
- d. Employed in K-12 education:
  - i. Employed as a K-12 classroom teacher, full or part-time; **SKIP TO QUESTION 7**
  - ii. Employed as a teacher on special assignment (without regular teaching responsibilities)
  - iii. Employed as a school principal
  - iv. Employed as a district-level science supervisor
  - v. Employed in another K-12 education position, specify \_\_\_\_\_
- e. Employed outside of a formal education setting:
  - i. Occupation directly affects K-12 education
  - ii. Occupation does not directly affect K-12 education

***If you selected d.i.(Employed as a K-12 classroom teacher, full or part-time), please skip to question 7. Otherwise, please proceed with question 3.***

3. What is the last school year that you taught at the K-12 level?

- |                               |                               |                               |                               |                               |                               |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="radio"/> 1998-99 | <input type="radio"/> 1995-96 | <input type="radio"/> 1992-93 | <input type="radio"/> 1989-90 | <input type="radio"/> 1986-87 | <input type="radio"/> 1983-84 |
| <input type="radio"/> 1997-98 | <input type="radio"/> 1994-95 | <input type="radio"/> 1991-92 | <input type="radio"/> 1988-89 | <input type="radio"/> 1985-86 |                               |
| <input type="radio"/> 1996-97 | <input type="radio"/> 1993-94 | <input type="radio"/> 1990-91 | <input type="radio"/> 1987-88 | <input type="radio"/> 1984-85 |                               |

4. Briefly describe the key factors that contributed to your decision to leave the classroom. *Please avoid writing in the markings at the side of the page.*

5. Did the award contribute in any way to your decision to leave the classroom?  Yes  No

6. Do you have plans to return to classroom teaching?  Yes  No

63 7. To what extent did receipt of the award impact you in each of the following ways?  
 62 (Darken one oval on each line.)

61 Not at all To a great extent

- |    |  |   |   |   |   |   |
|----|--|---|---|---|---|---|
| 60 | a. It increased resources available for my teaching                          | ① | ② | ③ | ④ | ⑤ |
| 59 | b. It increased my opportunities to network with other teachers              | ① | ② | ③ | ④ | ⑤ |
| 58 | c. It allowed more opportunities for my professional development             | ① | ② | ③ | ④ | ⑤ |
| 57 | d. It increased the time spent away from my daily teaching assignment        | ① | ② | ③ | ④ | ⑤ |
| 56 | e. It renewed my enthusiasm for teaching                                     | ① | ② | ③ | ④ | ⑤ |
| 55 | f. It increased the respect I received from the school and community         | ① | ② | ③ | ④ | ⑤ |
| 54 | g. It reduced the time that I had available for my teaching responsibilities | ① | ② | ③ | ④ | ⑤ |

51 8. The monetary award allowed me to: (Darken all that apply.)

- 49  a. Purchase technology for the school
- 48  b. Plan and present professional development for colleagues
- 47  c. Participate in professional development
- 46  d. Sponsor a colleague to participate in professional development
- 45  e. Purchase materials for my classroom
- 44  f. Purchase materials for other classrooms
- 43  g. Offer scholarships or grants to students
- 42  h. Provide materials for parents and the community (e.g., information packets, workshops, special presentations)
- 41  i. Contribute to school maintenance/renovation efforts
- 40  j. Provide additional activities for students (e.g., field trips, camps, special classroom projects)
- 39  k. Extend the award's impact by combining it with other sources of funds
- 38  l. Other, please specify \_\_\_\_\_

35 9. In what ways, if any, was your award recognized by the local media? (Darken all that apply.)

- 34  a. On a television news program
- 33  b. In a radio news story
- 32  c. In a local newspaper article
- 31  d. In a school/district newsletter
- 30  e. I received no local media recognition for winning the award.
- 29  f. Other, please specify \_\_\_\_\_

25 10. Overall, to what extent has the award led to increased respect for you from:  
 24 (Darken one oval on each line.)

23 Not at all To a great extent

- |    |                                  |   |   |   |   |   |
|----|----------------------------------|---|---|---|---|---|
| 22 | a. Your teaching colleagues      | ① | ② | ③ | ④ | ⑤ |
| 21 | b. Your students                 | ① | ② | ③ | ④ | ⑤ |
| 20 | c. The parents of your students  | ① | ② | ③ | ④ | ⑤ |
| 19 | d. The local community generally | ① | ② | ③ | ④ | ⑤ |

16 11. In the past, awardees have reported a wide variety of responses from their colleagues. To what extent did your teaching  
 15 colleagues view your receipt of the award as: (Darken one oval on each line.)

14 Not at all To a great extent

- |    |  |   |   |   |   |   |
|----|--|---|---|---|---|---|
| 13 | a. A well-deserved recognition of your excellence in teaching                            | ① | ② | ③ | ④ | ⑤ |
| 12 | b. A reward for simply being visible in the profession rather than excellent in teaching | ① | ② | ③ | ④ | ⑤ |
| 11 | c. Inspiration to apply for the Presidential Award or similar awards themselves          | ① | ② | ③ | ④ | ⑤ |
| 10 | d. Money that could have been better spent on other things                               | ① | ② | ③ | ④ | ⑤ |
| 9  | e. A reflection of the excellence of the school as a whole                               | ① | ② | ③ | ④ | ⑤ |



12. Which of the following activities were you engaged in during the specified times? (Darken one oval on each line in each column.)	In the five years <u>prior</u> to the receipt of the award		Within the first five years <u>after</u> receiving the award	
	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
a. Supervising a student teacher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. A formal mentoring or coaching arrangement with a new teacher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Serving as a grade-level/team leader	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Serving as an informal resource in science to other teachers in your school or district	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Providing workshops on science teaching to other teachers in your school or district	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Serving on a school or district science curriculum committee	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Serving on a school or district science textbook selection committee	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Serving as the science lead teacher or science department chair	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

13. Indicate the professional organizations you were a member of during the specified times. (Darken one oval on each line in each column.)	In the five years <u>prior</u> to the receipt of the award		Within the first five years <u>after</u> receiving the award	
	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
a. NSTA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. State-level chapter of NSTA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. NABT	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. ACS	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. AAPT	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. State-level chapter of AAPT	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Other science-related professional organization(s), please specify: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

14. Indicate the roles you have played in one or more of these professional organizations during the specified times. (Darken one oval on each line in each column.)	In the five years <u>prior</u> to the receipt of the award		Within the first five years <u>after</u> receiving the award	
	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
a. Attended conferences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Served on organization committees	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Presented at conferences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

15. Which of the following have occurred during the specified times? (Darken one oval on each line in each column.)	In the five years <u>prior</u> to the receipt of the award		Within the first five years <u>after</u> receiving the award	
	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
a. I am pursuing or have received another academic degree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. I am writing or have written a teaching-related journal article	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. I have been involved in writing a teaching-related book or textbook	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. I have hosted a radio or television program related to teaching	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. I have been involved in grant-writing or securing funds for education	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. I have been offered a job in the private sector	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. I am teaching/have taught undergraduate/graduate courses at a college or university	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>





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16. Which of the following activities were you involved in during the specified times? Consider only activities related to science education. (Darken one oval on each line in each column.)

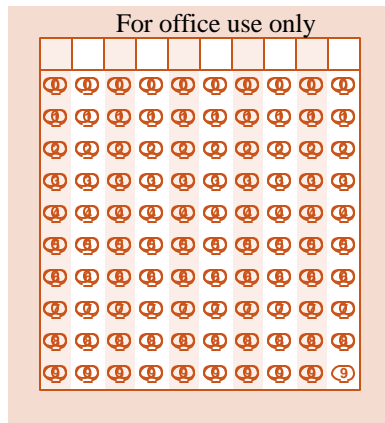
	In the five years prior to the receipt of the award		Within the first five years after receiving the award	
a. Worked on any of the following NSF-funded initiatives				
i. Statewide Systemic Initiative (SSI)	<input type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>	<input type="radio"/>
ii. Urban Systemic Initiative (USI)	<input type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>	<input type="radio"/>
iii. Urban Systemic Program (USP)	<input type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>	<input type="radio"/>
iv. Local Systemic Change (LSC)	<input type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>	<input type="radio"/>
v. Rural Systemic Initiative (RSI)	<input type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>	<input type="radio"/>
vi. Instructional materials development project	<input type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>	<input type="radio"/>
b. Reviewed PAEMST applications	<input type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>	<input type="radio"/>
c. Worked on science curriculum development outside of your district	<input type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>	<input type="radio"/>
d. Consulted on science education for other districts	<input type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>	<input type="radio"/>
e. Taught in-service workshops or courses in science/science teaching outside of your district	<input type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>	<input type="radio"/>
f. Worked on state science competencies/standards for K-12 students and/or teachers	<input type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>	<input type="radio"/>
g. Spoke to state legislators about science education	<input type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>	<input type="radio"/>
h. Served on a state-level higher education review panel (e.g., reviewed Eisenhower proposals) or advisory boards	<input type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>	<input type="radio"/>
i. Reviewed proposals for a federal agency (e.g., National Science Foundation, Department of Education, NASA)	<input type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>	<input type="radio"/>
j. Served on a national-level science education advisory board	<input type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>	<input type="radio"/>
k. Other, please specify _____	<input type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>	<input type="radio"/>

17. Please write your current email address here: \_\_\_\_\_

18. Looking back, what has been the overall greatest impact of your receiving this award? *Please avoid writing in the markings at the side of the page.*

Please make a photocopy of this questionnaire and keep it in case the original is lost in the mail. Please return the original to:

2000 National Survey of Science and Mathematics Education  
Westat  
1650 Research Blvd.  
TB120F  
Rockville, MD 20850



# PAEMST Awardee Questionnaire: Mathematics

**Instructions:** Please use a #2 pencil, or a blue or black pen to complete this questionnaire. Darken ovals completely, but do not stray into adjacent ovals. Be sure to erase or white out completely any stray marks.

1. In what year did you receive your Presidential Award?

- |                            |                            |                            |                            |                            |                            |
|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| <input type="radio"/> 1983 | <input type="radio"/> 1986 | <input type="radio"/> 1989 | <input type="radio"/> 1992 | <input type="radio"/> 1995 | <input type="radio"/> 1998 |
| <input type="radio"/> 1984 | <input type="radio"/> 1987 | <input type="radio"/> 1990 | <input type="radio"/> 1993 | <input type="radio"/> 1996 | <input type="radio"/> 1999 |
| <input type="radio"/> 1985 | <input type="radio"/> 1988 | <input type="radio"/> 1991 | <input type="radio"/> 1994 | <input type="radio"/> 1997 |                            |

2. Which best describes your **current primary** occupation? (Darken one oval.)

- a. Retired
- b. Currently not employed
- c. Employed in post-secondary education (e.g., college or university)
- d. Employed in K-12 education:
  - i. Employed as a K-12 classroom teacher, full or part-time; **SKIP TO QUESTION 7**
  - ii. Employed as a teacher on special assignment (without regular teaching responsibilities)
  - iii. Employed as a school principal
  - iv. Employed as a district-level mathematics supervisor
  - v. Employed in another K-12 education position, specify \_\_\_\_\_
- e. Employed outside of a formal education setting:
  - i. Occupation directly affects K-12 education
  - ii. Occupation does not directly affect K-12 education

***If you selected d.i.(Employed as a K-12 classroom teacher, full or part-time), please skip to question 7. Otherwise, please proceed with question 3.***

3. What is the last school year that you taught at the K-12 level?

- |                               |                               |                               |                               |                               |                               |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="radio"/> 1998-99 | <input type="radio"/> 1995-96 | <input type="radio"/> 1992-93 | <input type="radio"/> 1989-90 | <input type="radio"/> 1986-87 | <input type="radio"/> 1983-84 |
| <input type="radio"/> 1997-98 | <input type="radio"/> 1994-95 | <input type="radio"/> 1991-92 | <input type="radio"/> 1988-89 | <input type="radio"/> 1985-86 |                               |
| <input type="radio"/> 1996-97 | <input type="radio"/> 1993-94 | <input type="radio"/> 1990-91 | <input type="radio"/> 1987-88 | <input type="radio"/> 1984-85 |                               |

4. Briefly describe the key factors that contributed to your decision to leave the classroom. *Please avoid writing in the markings at the side of the page.*

5. Did the award contribute in any way to your decision to leave the classroom?  Yes  No

6. Do you have plans to return to classroom teaching?  Yes  No

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7. To what extent did receipt of the award impact you in each of the following ways?  
(Darken one oval on each line.)

Not at all To a great extent

a. It increased resources available for my teaching	1	2	3	4	5
b. It increased my opportunities to network with other teachers	1	2	3	4	5
c. It allowed more opportunities for my professional development	1	2	3	4	5
d. It increased the time spent away from my daily teaching assignment	1	2	3	4	5
e. It renewed my enthusiasm for teaching	1	2	3	4	5
f. It increased the respect I received from the school and community	1	2	3	4	5
g. It reduced the time that I had available for my teaching responsibilities	1	2	3	4	5

8. The monetary award allowed me to: (Darken all that apply.)

- a. Purchase technology for the school
- b. Plan and present professional development for colleagues
- c. Participate in professional development
- d. Sponsor a colleague to participate in professional development
- e. Purchase materials for my classroom
- f. Purchase materials for other classrooms
- g. Offer scholarships or grants to students
- h. Provide materials for parents and the community (e.g., information packets, workshops, special presentations)
- i. Contribute to school maintenance/renovation efforts
- j. Provide additional activities for students (e.g., field trips, camps, special classroom projects)
- k. Extend the award's impact by combining it with other sources of funds
- l. Other, please specify \_\_\_\_\_

9. In what ways, if any, was your award recognized by the local media? (Darken all that apply.)

- a. On a television news program
- b. In a radio news story
- c. In a local newspaper article
- d. In a school/district newsletter
- e. I received no local media recognition for winning the award.
- f. Other, please specify \_\_\_\_\_

10. Overall, to what extent has the award led to increased respect for you from:  
(Darken one oval on each line.)

Not at all To a great extent

a. Your teaching colleagues	1	2	3	4	5
b. Your students	1	2	3	4	5
c. The parents of your students	1	2	3	4	5
d. The local community generally	1	2	3	4	5

11. In the past, awardees have reported a wide variety of responses from their colleagues. To what extent did your teaching colleagues view your receipt of the award as: (Darken one oval on each line.)

Not at all To a great extent

a. A well-deserved recognition of your excellence in teaching	1	2	3	4	5
b. A reward for simply being visible in the profession rather than excellent in teaching	1	2	3	4	5
c. Inspiration to apply for the Presidential Award or similar awards themselves	1	2	3	4	5
d. Money that could have been better spent on other things	1	2	3	4	5
e. A reflection of the excellence of the school as a whole	1	2	3	4	5



12. Which of the following activities were you engaged in during the specified times? (Darken one oval on each line in each column.)

	In the five years <u>prior</u> to the receipt of the award		Within the first five years <u>after</u> receiving the award	
a. Supervising a student teacher	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
b. A formal mentoring or coaching arrangement with a new teacher	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
c. Serving as a grade-level/team leader	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
d. Serving as an informal resource in mathematics to other teachers in your school or district	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
e. Providing workshops on mathematics teaching to other teachers in your school or district	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
f. Serving on a school or district mathematics curriculum committee	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
g. Serving on a school or district mathematics textbook selection committee	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
h. Serving as the mathematics lead teacher or mathematics department chair	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No

13. Indicate the professional organizations you were a member of during the specified times. (Darken one oval on each line in each column.)

	In the five years <u>prior</u> to the receipt of the award		Within the first five years <u>after</u> receiving the award	
a. NCTM	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
b. State-level chapter of NCTM	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
c. Other mathematics-related professional organization(s), please specify: _____	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No

14. Indicate the roles you have played in one or more of these professional organizations during the specified times. (Darken one oval on each line in each column.)

	In the five years <u>prior</u> to the receipt of the award		Within the first five years <u>after</u> receiving the award	
a. Attended conferences	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
b. Served on organization committees	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
c. Presented at conferences	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No

15. Which of the following have occurred during the specified times? (Darken one oval on each line in each column.)

	In the five years <u>prior</u> to the receipt of the award		Within the first five years <u>after</u> receiving the award	
a. I am pursuing or have received another academic degree	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
b. I am writing or have written a teaching-related journal article	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
c. I have been involved in writing a teaching-related book or textbook	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
d. I have hosted a radio or television program related to teaching	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
e. I have been involved in grant-writing or securing funds for education	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
f. I have been offered a job in the private sector	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
g. I am teaching/have taught undergraduate/graduate courses at a college or university	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No



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16. Which of the following activities were you involved in during the specified times? Consider only activities related to mathematics education. (Darken one oval on each line in each column.)

	In the five years prior to the receipt of the award		Within the first five years after receiving the award	
a. Worked on any of the following NSF-funded initiatives				
i. Statewide Systemic Initiative (SSI)	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
ii. Urban Systemic Initiative (USI)	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
iii. Urban Systemic Program (USP)	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
iv. Local Systemic Change (LSC)	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
v. Rural Systemic Initiative (RSI)	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
vi. Instructional materials development project	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
b. Reviewed PAEMST applications	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
c. Worked on mathematics curriculum development outside of your district	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
d. Consulted on mathematics education for other districts	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
e. Taught in-service workshops or courses in mathematics/mathematics teaching outside of your district	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
f. Worked on state mathematics competencies/standards for K-12 students and/or teachers	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
g. Spoke to state legislators about mathematics education	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
h. Served on a state-level higher education review panel (e.g., reviewed Eisenhower proposals) or advisory board	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
i. Reviewed proposals for a federal agency (e.g., Department of Education, NASA)	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
j. Served on a national-level mathematics education advisory board	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
k. Other, please specify _____	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No

17. Please write your current email address here: \_\_\_\_\_

18. Looking back, what has been the overall greatest impact of your receiving this award? *Please avoid writing in the markings at the side of the page.*

Please make a photocopy of this questionnaire and keep it in case the original is lost in the mail. Please return the original to:

2000 National Survey of Science and Mathematics Education  
Westat  
1650 Research Blvd.  
TB120F  
Rockville, MD 20850

For office use only

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