

Science Teacher Background Questionnaire

2000 Grade 4

Part III-A: Science Preparation

There are 7 questions in this section.

QK070729

- 1. Counting this year, how many years have you taught science in public or private schools?
 - A Less than 3 years
 - ® 3-5 years
 - © 6-9 years
 - 10-20 years
 - More than 20 years

QK0707

2. During the past two years, have you taken college or university courses or participated in professional development activities in any of the following? Fill in **all** ovals that apply.

	College or University Course(s)	Workshops Lasting More than 1 Day	Workshops Lasting 1 Day or Less	None	
a. Methods of teaching science	(A)	₿	©	0	QK070722
b. Biology/life science	A	$^{ ext{ B}}$	©	•	QK070723
c. Chemistry	A	$^{ ext{ B}}$	©	•	QK070724
d. Physics	A	$^{ ext{ B}}$	©	•	QK070725
e. Earth science	A	$^{ ext{ B}}$	©	•	QK070726
f. Other types of science courses	A	$^{ ext{ $	©	•	QK070727

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				WO001025
3.		ring the past five years, have you taken course elopment activities in any of the following are		WO001023
		Use of computers for data acquisition probeware, scientific instrumentation)	(A)	WO001026
		Jse of computers for data analysis latabases, spreadsheets, graphing software)	(A)	WO001027
	c. L	aboratory management or safety	(A)	WO001029
	(i	ntegrated science instruction ntegrating strands of life, physical, nd earth sciences)	(A)	WO001030
4.	dev atte	ring the last year, how much time in total havelopment workshops or seminars in science of andance at professional meetings and conferent external workshops.	r science education? Include	HE002600
	(A)	None		
	®	Less than 6 hours		
	0	6-15 hours		
	(16-35		
	Œ	More than 35 hours		
5.		ring the last two years, how many college or unce or science education?	niversity courses have you taken	не002602 in
	(A)	None		
	®	One		
	0	Two		
	(Three		
	Œ	Four or more		

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6. Do you belong to one or more professional organizations related to se	science?
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A Yes

® No

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7. Over the past 12 months, **approximately** how much of your own money have you spent on materials and equipment for instruction in your science classes?

None

® \$1-\$25

© \$26-\$50

\$51-\$100

\$101-\$150

\$151-\$250

© More than \$250

Part III-B: Science Instructional Information

There are 14 questions in this section.

Questions 1 through 8. These questions refer to your science instruction in general.

HE002414

1. About how often do your science students do each of the following? Fill in **one** oval on each line.

	Almost Every Day	Once or Twice a Week	Once or Twice a Month	Never or Hardly Ever	
a. Read a science textbook	A	₿	©	•	HE002415
b. Read a book or magazine about science	(A)	₿	©	0	HE002416
c. Discuss science in the news	A	₿	©	•	HE002417
d. Work with other students on a science activity or project	(A)	₿	©	0	HE002418
e. Give an oral science report	A	$^{ ext{ B}}$	0	•	HE002419
f. Prepare a written science report	A	₿	0	•	HE002420
g. Do hands-on activities or investigations in science	(A)	B	©	•	HE002421
h. Talk about measurements and results from students' hands-on activities	A	₿	©	•	HE002422
i. Take a science test or quiz	(A)	®	©	(D)	HE002423

HE002426

2. When you teach science, about how often do you do each of the following? Fill in **one** oval on each line.

	Almost Every Day	Once or Twice a Week	Once or Twice a Month	Never or Hardly Ever	
a. Do a science demonstration	(A)	$^{\odot}$	©	•	HE002428
b. Show a science videotape or science television program	(A)	B	©	0	HE002429
c. Read to students from the science textbook	(A)	®	©	•	ID110404

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3.	About how often do your science students go on a science field trip?	
	② 3 or more times a year	

1 or 2 times a year

Never or hardly ever

HE002435

4. Think about your plans for your science instruction during the entire year. About how much emphasis will you give to each of the following objectives for your students? Fill in **one** oval on each line.

		Heavy Emphasis	Moderate Emphasis	Little or No Emphasis	
a. Knowing science facts and	terminology	(A)	₿	©	HE002436
b. Understanding key science	concepts	(A)	$^{ ext{ B}}$	0	HE002437
c. Developing science problem	n-solving skills	A	$^{ ext{ $	0	HE002438
d. Learning about the relevan to society and technology	ce of science	(A)	₿	0	HE002439
e. Knowing how to communi in science effectively	icate ideas	(A)	₿	©	HE002440
f. Developing laboratory skill	ls and techniques	(A)	₿	©	HE002441
g. Developing students' intere	est in science	(A)	$^{ ext{ B}}$	0	HE002442
h. Developing data analysis sl	kills	A	$^{ ext{ $	0	HE002443
i. Using technology as a scien	ntific tool	A	B	©	HE002444

HE002445

5. Do you ever assign individual or group science projects or investigations in school that take a week or more?

A Yes

® No

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6. How often do you use each of the following to assess student progress in science? Fill in **one** oval on each line.

	Once or Twice a Week	Once or Twice a Month	Once per Grading Period	Once or Twice a Year	Never o	
a. Multiple-choice tests	(A)	$^{ ext{ B}}$	O	•	(E)	HE002447
b. Short or long written responses (e.g., a phrase or sentence; or several sentences or paragraphs)	(A)	®	O	•	(E)	HE002448
c. Laboratory notebooks or journals	A	$^{ ext{ B}}$	©	Ф	Œ	HE002454

HE002458

- 7. Which best describes the availability of computers for use by your science students?
 - None available
 - ® One within the classroom
 - Two or three within the classroom
 - Tour or more within the classroom
 - Available in a computer laboratory but difficult to access or schedule
 - Available in a computer laboratory and easy to access or schedule

HE002459

- 8. How do you use computers for instruction in science?
 - Drill and practice
 - Playing science/learning games
 - Simulations and modeling
 - Data analysis and other applications
 - Word processing
 - ① I do not use computers for science instruction.

Questions 9 through 13. Please answer these questions about each of the science classes listed on the front cover. One column is provided for each class. However, if your responses to all of these questions are the same for more than one class, record your answers for these classes in one column and grid the class period numbers for which your responses apply at the top of the column. If you teach one class of students all day, this should be called class period "1" on the front cover and throughout this section.

Fill in one oval in each column for each question. Then complete Question 14 as directed.

	COLUMN 1	COLUMN 2
For which class period(s) do all of the following responses apply?	003456089	003456089
of the following responses apply? HE002412 9. Are students assigned to this class by ability? A Yes B No HE002461 10. If students are assigned by ability, which of the following best describes the science ability level of the students in this class? A Students are not assigned by ability. B Primarily high ability C Primarily average ability D Primarily low ability E Widely mixed ability	9. 9. 4 6 7 8 9 10 10 10	9. 9. 4 6 7 7 8 7 8 7 7 8 7 8 8 8 9 10 10 10 10 10 10 10 10 10
D Primarily low ability	•	©

COLUMN 3	COLUMN 4	COLUMN 5
003456089	003456789	003956789
9.	9.	9.
(A)	(A)	(A)
B	®	®
10.	10.	10.
(A)	(A)	(A)
®	®	®
©	©	©
•	(D)	©
©	©	©

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	COLUMN 1					COLUMN 2					
HE002463 11. In this class, about how much time do	11.						11.				
you spend on each of the following areas of science? Fill in one oval on each line.		A lot	Some	Little	None		11.	A lot	Some	Little	None
A Life science	((A)	®	0	Ф			(A)	®	0	(
B Earth science	((A)	®	0	Ф			(A)	®	0	(
C Physical science	((A)	®	0	Ф			(A)	®	0	(
12. Which of the following best describes the space where this class is taught?	12.						12.				
A Classroom with no access to a laboratory or a water source	(A						A			
B A classroom with access to a water source only	(ഀ						₿			
C A classroom with access to a laboratory only	(©						0			
D A laboratory with water source	((0			
13. About how much time do you expect a student in this class to spend doing science homework each week ?	13.						13.				
A None	(\bigcirc						(A)			
B 1/2 hour	(®						®			
C 1 hour	(©						0			
D 2 hours	((0			
E More than 2 hours	((E)						(E)			
'	•					'					

COLUMN 3					COLUMN 4						COLUMN 5					
11.				11.					11.							
A lot	Some	Little	None		A lot	Some	Little	None		A lot	Some	Little	None			
(A)	$^{ ext{ $	0	0		lack	$^{ ext{ $	0	0		(A)	®	0	0			
(A)	$^{ ext{ $	0	0		lack	$^{ ext{ $	0	0		(A)	®	0	0			
(A)	®	0	0		lack	$^{ ext{ $	0	•		(A)	$^{ ext{ B}}$	©	•			
12.				12.					12.							
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14. For each of the science class periods indicated on the front cover, please fill in the oval for the class period and, using the boxes provided, print the number of students in that class.

Please print legibly with a No. 2 pencil. Numbers should be written clearly in the center of the boxes and should not touch the sides. Using one number per box, fill in every box. For example, 9 students would be written as:

Class period	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	Number of students:
Class period	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	Number of students:
Class period	①②③④⑤⑥⑦⑧⑨	Number of students:
Class period	①②③④⑤⑥⑦⑧⑨	Number of students:
Class period	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	Number of students: