

During the 1999-2000 school year, a sample of students across the country, including some of your school's 12th-grade students, will participate in the National Assessment of Educational Progress (NAEP). This current assessment focuses on achievement in various subjects, including mathematics and science. To investigate the relationship between students' achievement and various school, teacher, and home factors, NAEP is also collecting information from schools and teachers.

The purpose of this questionnaire is to gather information about your school's science department. **It should be completed by the science department chair or lead or head teacher.**

Obviously, only you can provide this important information. So, although we realize that you are very busy, we urge you to complete this questionnaire as accurately as possible. The information you provide is being collected for research purposes only and will be kept strictly confidential.

NAEP is authorized under Public Law 103-382. While your participation is voluntary, your responses to these questions are needed to make this survey accurate and complete.

Instructions

Please record your answers directly in this questionnaire by filling in the appropriate ovals or boxes or by writing on the lines.

When you are finished, please return the questionnaire to your school's NAEP coordinator.

THANK YOU VERY MUCH.



Science Department Chair/Lead Teacher Questionnaire Operational Trial

This questionnaire should be completed by the science department chair or lead or head teacher.

Some of the questions that follow ask you to fill in specific numbers. For those questions, please print the appropriate number in each of the boxes provided. Please PRINT LEGIBLY with a No. 2 pencil. Keep all printing within the boxes and erase any stray marks.

Using one number per box, fill in every box.

For example, 5 teachers in a category would be written as

0	5
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If there are no teachers in a category, the boxes would be filled in like this:

0	0
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1. Are you the chair or lead/head teacher of the science department?

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Ⓐ Yes

Ⓑ No, I am (job title) _____

2. How many people currently teach science in your department? (Include part-time instructors, but exclude those who teach only special education courses.)

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 people currently teach in this department.

3. What grades does your department cover?

QK070587

Ⓐ Grades 8 through 12

Ⓑ Grades 9 through 12

Ⓒ Grades 10 through 12

Ⓓ Grades

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 through

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QK070473

4. Are science teachers in your school required to have state certification and/or endorsement in a particular subject area in order to teach that subject?

- ☐ A Yes
- ☐ B No, they are not required to have state certification/endorsement.
- ☐ C No, our state doesn't offer certification/endorsement.

QK070474

5. How many of your science teachers currently hold temporary, provisional, or emergency certificates or waivers in their main teaching assignment fields?

teachers hold temporary, provisional, or emergency certificates or waivers in their main assignment fields.

QK070475

6. How many of your science teachers currently hold regular or standard state certificates/endorsements, advanced professional certificates, or probationary certificates (for which all requirements have been satisfied except the completion of a probationary period) in their main teaching assignment fields?

teachers hold regular, advanced, or probationary state certificates in their main assignment fields.

QK070476

7. How many people teaching science in your department have undergraduate degrees and/or graduate degrees in science or science education?

teachers have degrees in those subjects.

QK070594

8. Are science teachers required to complete additional science coursework/professional development hours in science by your state or district as a condition for continuing certification/employment?

- ☐ A Yes
- ☐ B No



QK070764

9. About how many hours of the following types of science-specific staff training or development has the average teacher received in the past twelve months? Fill in **one** oval on each line.

	None	Fewer than 6 hours	6-15 hours	16-35 hours	More than 35 hours	
a. Professional development (inservice workshops or seminars within my school district)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	QK070765
b. Professional development (seminars outside school district, science education conferences)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	QK070766
c. College/university courses in science (in terms of semester hours taken)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	QK070767
d. College/university courses in science education (in terms of semester hours taken)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	QK070768

10. Which science courses are offered in your school system, from the eighth grade through the twelfth? If students in several grades take a course such as first-year biology in fairly equal proportions, fill in **all** appropriate ovals.

	Not offered	The majority of the enrolled students are in grade:					
		8	9	10	11	12	
a. Earth (and space) science	(A)	(B)	(C)	(D)	(E)	(F)	QK070641
b. Life science (other than biology)	(A)	(B)	(C)	(D)	(E)	(F)	QK070642
c. First-year biology	(A)	(B)	(C)	(D)	(E)	(F)	QK070643
d. Second-year biology	(A)	(B)	(C)	(D)	(E)	(F)	QK070644
e. Advanced Placement Biology	(A)	(B)	(C)	(D)	(E)	(F)	QK070645
f. Environmental science	(A)	(B)	(C)	(D)	(E)	(F)	QK070770
g. Advanced Placement Environmental Science	(A)	(B)	(C)	(D)	(E)	(F)	QK070646
h. Physical science (other than chemistry and physics)	(A)	(B)	(C)	(D)	(E)	(F)	QK070647
i. First-year chemistry	(A)	(B)	(C)	(D)	(E)	(F)	QK070648
j. Second-year chemistry	(A)	(B)	(C)	(D)	(E)	(F)	QK070649
k. Advanced Placement Chemistry	(A)	(B)	(C)	(D)	(E)	(F)	QK070650
l. First-year physics	(A)	(B)	(C)	(D)	(E)	(F)	QK070651
m. Second-year physics	(A)	(B)	(C)	(D)	(E)	(F)	QK070652
n. Advanced Placement Physics	(A)	(B)	(C)	(D)	(E)	(F)	QK070653
o. General science	(A)	(B)	(C)	(D)	(E)	(F)	QK070654
p. Integrated science	(A)	(B)	(C)	(D)	(E)	(F)	QK070655
q. Science, technology, and society	(A)	(B)	(C)	(D)	(E)	(F)	QK070656
r. Advanced Placement Computer Science	(A)	(B)	(C)	(D)	(E)	(F)	QK070657
s. International Baccalaureate Experimental Sciences (any IB experimental science courses)	(A)	(B)	(C)	(D)	(E)	(F)	QK070658
t. Other _____	(A)	(B)	(C)	(D)	(E)	(F)	QK070659

QK070632

11. Which best describes the average student to computer ratio in your science classrooms?

- Ⓐ There are no computers for student use in the classrooms.
- Ⓑ 1 student to 1 computer
- Ⓒ 2 students to 1 computer
- Ⓓ 3-4 students to 1 computer
- Ⓔ 5-10 students to 1 computer
- Ⓕ 11-20 students to one computer
- Ⓖ More than 20 students to 1 computer

QK070633

12. What are the most common ways that teachers in your department use computers as instructional tools in their classrooms? Fill in **all** ovals that apply.

- Ⓐ There are no computers available as instructional tools.
- Ⓑ To collect data using lab equipment that interfaces with computers (e.g., probes)
- Ⓒ To download data and related information from the Internet
- Ⓓ To analyze data
- Ⓔ To exchange information about science experiments or investigations with students or scientists using the Internet

QK070673

13. This year, has your school scheduled regular times during the school week for your science teachers to discuss instructional strategies, methodologies, etc., with each other?

- Ⓐ Yes
- Ⓑ No

QK070674

14. On average, how much time has been set aside for class preparation for each science teacher during a typical week?

- Ⓐ No time has been set aside for class preparation.
- Ⓑ 50 minutes or less
- Ⓒ 51-100 minutes
- Ⓓ 101-150 minutes
- Ⓔ 151-200 minutes
- Ⓕ 201-250 minutes
- Ⓖ More than 250 minutes

QK070638

15. How often does your department typically replace textbooks?

- Ⓐ About every 2 years
- Ⓑ About every 3 to 5 years
- Ⓒ About every 5 to 7 years
- Ⓓ Usually more than 7 years
- Ⓔ Students are required to purchase their own science textbooks; therefore, replacement is not directly dependent on school funds.
- Ⓕ We do not use textbooks in this department.