

2000 National Survey of Science and Mathematics Education

School Science Program Questionnaire

Instructions: 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.

1. What is your title? (Darken all that apply.)

- | | |
|--|---|
| <input type="radio"/> Science department chair | <input type="radio"/> Principal |
| <input type="radio"/> Science lead teacher | <input type="radio"/> Assistant principal |
| <input type="radio"/> Teacher | <input type="radio"/> Other (please specify): _____ |

2. Indicate whether each of the following programs/practices is currently being implemented in your school. (Darken one oval on each line.)

	Yes	No	Don't Know/ Not Applicable
a. School-based management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Common daily planning period for members of the science department	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Common work space for members of the science department	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Teachers <i>formally</i> designated and serving as science lead teachers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Teachers provided with release time to help other teachers in the school/district	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Interdisciplinary teams of teachers who share the same students	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Students assigned to science classes by ability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Use of vocational/technical applications in science instruction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. Elementary or middle school students pulled out from self-contained classes for remedial instruction in science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. Elementary or middle school students pulled out from self-contained classes for enrichment in science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k. Elementary or middle school students receiving instruction from science specialists <i>in addition to</i> their regular teacher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
l. Elementary or middle school students receiving instruction from science specialists <i>instead of</i> their regular teacher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
m. Science courses offered by telecommunications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
n. Students going to another K-12 school for science courses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
o. Students going to a college or university for science courses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
p. Integration of science subjects (e.g., physical science, life science, and earth science all taught together each year)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

3. Please give us your opinion about each of the following statements in regard to the National Research Council's (NRC) work in setting standards for science curriculum, instruction, and assessment. (Darken one oval on each line.)

	Strongly Disagree	Disagree	No Opinion	Agree	Strongly Agree
a. I am prepared to explain the NRC <i>National Science Education Standards</i> to my colleagues.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. The <i>Standards</i> have been thoroughly discussed by teachers in this school.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. There is a school-wide effort to make changes inspired by the <i>Standards</i> .	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Teachers in this school have implemented the <i>Standards</i> in their teaching.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. The principal of this school is well-informed about the <i>Standards</i> .	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Parents of students in this school are well-informed about the <i>Standards</i> .	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. The superintendent of this district is well-informed about the <i>Standards</i> .	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. The School Board is well-informed about the <i>Standards</i> .	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. Our district is organizing staff development based on the <i>Standards</i> .	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. Our district has changed how it evaluates teachers based on the <i>Standards</i> .	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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4. Does your school include students in grades 6 or higher?
(Darken one oval.)

Yes, CONTINUE WITH QUESTION 5
 No, SKIP TO QUESTION 8

5. Please give the number of sections of each of the following science courses currently offered in your school.
(Additional course titles for these categories are shown on the enclosed "List of Course Titles.")

Current number of sections	Code	Course Category	Current number of sections	Code	Course Category
_____	108	Life Science, 6 - 8	_____	114	Biology, 1st year
_____	109	Earth Science, 6 - 8	_____	115	Biology, 1st year, Applied
_____	110	Physical Science, 6 - 8	_____	116	Biology, 2nd year, AP
_____	111	General Science, 6 - 8	_____	117	Biology, 2nd year, Advanced
_____	112	Integrated Science, 6 - 8	_____	118	Biology, 2nd year, Other
<u>Grades 6-8, Other Science Courses</u>			_____	119	Chemistry, 1st year
_____	_____	_____	_____	120	Chemistry, 1st year, Applied
_____	_____	_____	_____	121	Chemistry, 2nd year, AP
_____	_____	_____	_____	122	Chemistry, 2nd year, Advanced
_____	_____	_____	_____	123	Physics, 1st year
_____	_____	_____	_____	124	Physics, 1st year, Applied
_____	_____	_____	_____	125	Physics, 2nd year, AP
_____	_____	_____	_____	126	Physics, 2nd year, Advanced
_____	_____	_____	_____	127	Physical Science
_____	_____	_____	_____	128	Astronomy/Space Science*
_____	_____	_____	_____	129	Geology*
_____	_____	_____	_____	130	Meteorology*
_____	_____	_____	_____	131	Oceanography/Marine Science*
_____	_____	_____	_____	132	Earth Science, 1st year
_____	_____	_____	_____	133	Earth Science, 1st year, Applied
_____	_____	_____	_____	134	Earth Science, 2nd year, Advanced/Other
_____	_____	_____	_____	135	General Science
_____	_____	_____	_____	136	Environmental Science
_____	_____	_____	_____	137	Coordinated Science
_____	_____	_____	_____	138	Integrated Science
<u>Grades 9-12, Other Science Courses</u>			_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

* NOTE: A course that includes substantial content from two or more of the earth sciences should be listed under code 132, 133, 134, or 135.

6. Please give the code number of any science courses offered this year that will **not** be offered next year. If all will be offered next year, darken this oval and continue with question 7. Otherwise, list the code number of courses that will not be offered:

7. Which of the following best describes the way science classes at your school are scheduled? (Darken one oval.)

- a. All or most classes meet five days per week for one year.
- b. All or most classes meet five days per week for one semester.
- c. All or most classes meet three days one week and two days the next week for one year.
- d. Other arrangement; on a separate page, please give a brief written description of how often classes meet and the number of minutes in each class session.

Please enter the number of minutes each class meets per session in the spaces provided to the right, then darken the corresponding oval in each column: (Please enter your answer as a 3-digit number; e.g., if 30 minutes, enter 030.)

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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8. How much money was spent on science equipment and consumable supplies in this school during the most recently completed budget year? Provide your answer as a **whole dollar amount**. (If you don't know the exact amounts, please provide your best estimates.) Please enter your answers in the spaces provided, then darken the corresponding oval in each column. Please right justify your answers; e.g., enter \$125 as

			1	2	5
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a. Science Equipment (non-consumable, non-perishable items such as microscopes, scales, etc., but not computers)

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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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If this is an estimate, please darken this oval:

b. Consumable Science Supplies (materials that must continually be replenished such as chemicals, glassware, batteries, etc.)

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If this is an estimate, please darken this oval:

c. Science Software

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If this is an estimate, please darken this oval:

9. In your opinion, how great a problem is each of the following for science instruction **in your school as a whole**? (Darken one oval on each line.)

	Not a Significant Problem	Somewhat of a Problem	Serious Problem
a. Facilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Funds for purchasing equipment and supplies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Materials for individualizing instruction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Access to computers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Appropriate computer software	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Student interest in science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Student reading abilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Student absences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. Teacher interest in science	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
j. Teacher preparation to teach science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k. Time to teach science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
l. Opportunities for teachers to share ideas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Question 9 continues on next page...

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9. *continued*

	Not a Significant Problem	Somewhat of a Problem	Serious Problem
m. In-service education opportunities	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
n. Interruptions for announcements, assemblies, other school activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
o. Large classes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
p. Maintaining discipline	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
q. Parental support for education	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

10. In your opinion, how great a problem is each of the following for science instruction **in your school as a whole?** (Darken one oval on each line.)

	Not a Significant Problem	Somewhat of a Problem	Serious Problem
a. State and/or district curriculum frameworks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. State and/or district testing policies and practices	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
c. Importance that the school places on science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Public attitudes toward science reform at this school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Conflict between science reform efforts at this school and other school/district reform efforts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Time available for teachers to plan and prepare lessons	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Time available for teachers to work with other teachers during the school year	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Time available for teacher professional development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. System of managing instructional resources at the district or school level (e.g., distributing science materials, refurbishing materials)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Question 11 is being asked of all science teachers in the sample. If you received a Science Teacher Questionnaire in addition to this School Science Program Questionnaire, please darken this oval and SKIP TO QUESTION 12.

11a. 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 12
- Somewhat familiar
- Fairly familiar
- Very familiar

11b. 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 type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

12. If you have an email address, please write it here: _____

13. When did you complete this questionnaire? _____ / _____ / _____
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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