



63 **Instructions:** Please use a #2 pencil to complete this questionnaire. Darken ovals completely, but do not stray into adjacent ovals.  
62 Be sure to erase completely any stray marks.

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### A. Teacher Demographic Information

1. Are you:  Male  Female
- 2a. Ethnicity - Are you: (Darken one oval.)  Hispanic or Latino  Not Hispanic or Latino
- 2b. Race - Are you: (Choose one or more.)  American Indian or Alaska Native  Asian  Black or African American  Native Hawaiian or Other Pacific Islander  White

3. For each of the following subjects, please indicate (a) the number of semesters of college coursework you have completed, and (b) whether you are certified to teach it at the secondary level. (Darken one oval in each section on each line.)	Number of semesters college coursework				Certified?	
	0	1-3	4-7	8 or more	Yes	No
a. Life Science/Biology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Earth/Space Science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Chemistry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Physics/Physical Science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Engineering/Technology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Mathematics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

4. How many years have you taught prior to this school year? (Darken one oval.)
- 0-2     3-5     6-10     11-15     16-20     21-25     26 or more

5. When did you last complete a science course for college credit? (Darken one oval.)
- In the last 5 years     6-10 years ago     11-20 years ago     More than 20 years ago

6. Which of the following courses have you taught in the last 3 years? (Darken all ovals that apply.)
- |   |  |  |
|---|--|--|
| <input type="radio"/> Life Science/Biology  | <input type="radio"/> Physical Science   | <input type="radio"/> Advanced Physics     |
| <input type="radio"/> Advanced Biology      | <input type="radio"/> Chemistry          | <input type="radio"/> Integrated Science   |
| <input type="radio"/> Earth/Space Science   | <input type="radio"/> Advanced Chemistry | <input type="radio"/> Technology Education |
| <input type="radio"/> Environmental Science | <input type="radio"/> Physics            |  |

## The National Science Foundation's Local Systemic Change (LSC) through Teacher Enhancement Program's Core Evaluation

You have been selected to participate in the nationwide evaluation of the federally-funded Local Systemic Change (LSC) program. LSC is a National Science Foundation Teacher Enhancement program that has funded more than 80 local projects that have offered science and/or mathematics professional development to teachers around the country. **The cover letter accompanying this questionnaire identifies the LSC project in your area, as well as the instructional materials that are the focus of that LSC project.**

Several times over the course of the LSC, each project will administer questionnaires to a sample of teachers who are targeted to participate in the local project's professional development activities. Note that you may be asked to complete this questionnaire even if you have not yet participated in the project's professional development; your response is important, regardless of whether you have already participated. A small number of randomly-selected teachers in each project is asked to provide additional information in interviews, sometimes in conjunction with a classroom visit. In order to continue receiving federal funding, each LSC project must participate in this national evaluation.

Data collection procedures have been developed to ensure high-quality data and protect teacher confidentiality. Your responses will be kept strictly confidential; they will be combined with the responses of the other teachers in your project and used only for the LSC evaluation. The name label and numbering on this questionnaire are used to help local projects deliver questionnaires to the proper teachers and follow up with teachers who have not responded; no information identifying individual teachers will be reported under any circumstances. After you complete the questionnaire, you should remove the name label and return the questionnaire as specified by your local LSC project.



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9. My principal: (Darken one oval on each line.)

	Strongly Disagree	Disagree	No Opinion	Agree	Strongly Agree
a. Encourages me to select science content and instructional strategies that address individual students' learning.	1	2	3	4	5
b. Accepts the noise that comes with an active classroom.	1	2	3	4	5
c. Encourages the implementation of current national standards in science education.	1	2	3	4	5
d. Encourages innovative instructional practices.	1	2	3	4	5
e. Enhances the science program by providing me with needed materials and equipment.	1	2	3	4	5
f. Provides time for teachers to meet and share ideas with one another.	1	2	3	4	5
g. Encourages me to observe exemplary science teachers.	1	2	3	4	5
h. Encourages teachers to make connections across disciplines.	1	2	3	4	5
i. Acts as a buffer between teachers and external pressures (e.g., parents).	1	2	3	4	5

10. Are you the science department chair for your school? (Darken one oval.)
- No (continue with Question 11)
  - Yes (skip to Question 12)
  - Our school does not have a science department chair (skip to Question 12)

11. My department chair: (Darken one oval on each line.)

	Strongly Disagree	Disagree	No Opinion	Agree	Strongly Agree
a. Encourages me to select science content and instructional strategies that address individual students' learning.	1	2	3	4	5
b. Accepts the noise that comes with an active classroom.	1	2	3	4	5
c. Encourages the implementation of current national standards in science education.	1	2	3	4	5
d. Encourages innovative instructional practices.	1	2	3	4	5
e. Enhances the science program by providing me with needed materials and equipment.	1	2	3	4	5
f. Provides time for teachers to meet and share ideas with one another.	1	2	3	4	5
g. Encourages me to observe exemplary science teachers.	1	2	3	4	5
h. Encourages teachers to make connections across disciplines.	1	2	3	4	5

12. Please indicate how well prepared you feel to do each of the following. (Darken one oval on each line.)

	Not Adequately Prepared	Somewhat Prepared	Fairly Well Prepared	Very Well Prepared
a. Lead a class of students using investigative strategies.	1	2	3	4
b. Manage a class of students engaged in hands-on/project-based work.	1	2	3	4
c. Help students take responsibility for their own learning.	1	2	3	4
d. Recognize and respond to student diversity.	1	2	3	4
e. Encourage students' interest in science.				
f. Use strategies that specifically encourage participation of females and minorities in science.	1	2	3	4
g. Involve parents in the science education of their students.				





20. About how often do <b>students</b> in this class take part in each of the following types of activities as part of their 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. Participate in student-led discussions.	1	2	3	4	5
b. Participate in discussions with the teacher to further science understanding.	1	2	3	4	5
c. Work in cooperative learning groups.	1	2	3	4	5
d. Make formal presentations to the class.	1	2	3	4	5
e. Read from a science textbook in class.	1	2	3	4	5
f. Read other (non-textbook) science-related materials in class.	1	2	3	4	5
g. Answer textbook/worksheet questions.	1	2	3	4	5
h. Review homework/worksheet assignments.	1	2	3	4	5
i. Work on solving a real-world problem.	1	2	3	4	5
j. Share ideas or solve problems with each other in small groups.	1	2	3	4	5
k. Engage in hands-on science activities.	1	2	3	4	5
l. Follow specific instructions in an activity or investigation.	1	2	3	4	5
m. Design or implement their <i>own</i> investigation.	1	2	3	4	5
n. Design objects within constraints (e.g., egg drop, toothpick bridge, aluminum boats).	1	2	3	4	5
o. Work on models or simulations.	1	2	3	4	5
p. Work on extended science investigations or projects (a week or more in duration).	1	2	3	4	5
q. Participate in field work.	1	2	3	4	5
r. Record, represent, and/or analyze data.	1	2	3	4	5
s. Write reflections in a notebook or journal.	1	2	3	4	5
t. Prepare written science reports.	1	2	3	4	5
u. Use mathematics as a tool in problem-solving.	1	2	3	4	5
v. Use calculators.	1	2	3	4	5
w. Use computers.	1	2	3	4	5
x. Work on portfolios.	1	2	3	4	5
y. Take short-answer tests (e.g., multiple choice, true/false, fill-in-the-blank).	1	2	3	4	5
z. Take tests requiring open-ended responses (e.g., descriptions, explanations).	1	2	3	4	5
aa. Engage in performance tasks for assessment purposes.	1	2	3	4	5

## D. LSC Professional Development

Questions 21-27 refer to the NSF-supported Local Systemic Change (LSC) program. Please refer to the cover letter accompanying this questionnaire for information about the LSC project activities and designated materials in your district. **If you have not yet participated in LSC professional development, darken this oval:  and skip to Question 26.**

21. To what extent is each of the following true of LSC science-related professional development in your district? (Darken one oval on each line.)	Not at all				To a great extent
a. I am involved in planning my science-related professional development.	1	2	3	4	5
b. I am encouraged to develop an individual professional development plan to address my needs and interests related to science education.	1	2	3	4	5
c. I am given time to work with other teachers as part of my professional development.	1	2	3	4	5
d. I am given time to reflect on what I've learned and how to apply it to the classroom.	1	2	3	4	5
e. I receive support as I try to implement what I've learned.	1	2	3	4	5

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