

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 |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
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 students 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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22. Approximately how many **total hours** have you spent on formal, LSC-provided professional development in science/science education **since the LSC project began?** (Darken one oval.)

- 0 10-19 40-59 80-99 130-159 200 or greater
 1-9 20-39 60-79 100-129 160-199

23. Please indicate the number of times you have participated in each of the following activities **during this school year.** (Darken one oval on each line.)

	0	1-2	3-4	5-6	7 or more
a. Participated in an LSC academic year "kit club"/study group/discussion group.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
b. Was "coached" on my teaching by an LSC teacher leader/staff person based on a classroom observation.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
c. Received assistance from an LSC "teacher leader" in my school.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
d. Received assistance from an LSC staff person in my district.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
e. Received assistance from an LSC-designated scientist/science educator from a college/university/museum/industry.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
f. Read messages in a Listserv discussion sponsored by the LSC.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
g. Posted messages to a Listserv discussion sponsored by the LSC.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5

24. How would you rate the overall quality of the LSC professional development? (Darken one oval.)

Very Poor	Poor	Fair	Good	Very Good	Excellent
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

25. To what extent has participation in LSC science-related professional development increased your: (Darken one oval on

	Not at all	To a great extent			
a. Science content knowledge.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
b. Understanding of how children think about/learn science.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
c. Ability to implement high-quality science instructional materials.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5

26. How many science classes are you currently teaching that use the materials designated by your LSC (see cover letter) as the primary instructional materials? (Darken one oval.)

None	One	Two	Three	Four	Five	Six or more
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

27. Have you been identified as a teacher leader for your district's NSF-supported LSC project? Yes No

Thank you very much for participating in this survey!

PLEASE DO NOT WRITE IN THIS AREA