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

A. Teacher Demographic Information

1. Are you: Male Female
- 2a. Ethnicity - Are you: Hispanic or Latino Not Hispanic or Latino
(Darken one oval.)
- 2b. Race - Are you: American Indian or Alaska Native Asian Black or African American Native Hawaiian or Other Pacific Islander White
(Choose one or more.)
3. How many college science courses have you completed? (Darken one oval.)
 None
 1 semester
 2 semesters
 3 semesters
 4 semesters
 5 or more semesters
4. Did your college science coursework include the equivalent of at least one semester of: (Darken one oval on each line.)
- | | Yes | No |
|----------------------------|-----------------------|-----------------------|
| a. Life science | <input type="radio"/> | <input type="radio"/> |
| b. Earth and space science | <input type="radio"/> | <input type="radio"/> |
| c. Physical science | <input type="radio"/> | <input type="radio"/> |
5. 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"/> |

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.

B. Teacher Opinions and Preparedness

6. Please provide your opinion about each of the following statements.
(Darken one oval on each line.)

	Strongly Disagree	Disagree	No Opinion	Agree	Strongly Agree
a. Students generally learn science best in classes with students of similar abilities.	1	2	3	4	5
b. I feel supported by colleagues to try out new ideas in teaching science.	1	2	3	4	5
c. Teachers in this school have a shared vision of effective science instruction.	1	2	3	4	5
d. Teachers in this school regularly share ideas and materials related to science.	1	2	3	4	5
e. Teachers in this school are well-supplied with materials for investigative science instruction.	1	2	3	4	5
f. I have time during the regular school week to work with my peers on science curriculum and instruction.	1	2	3	4	5
g. I have adequate access to computers for teaching science.	1	2	3	4	5
h. I enjoy teaching science.	1	2	3	4	5
i. I am well-informed about the NRC <i>National Science Education Standards</i> for the grades I teach.	1	2	3	4	5
j. The science program in this school is strongly supported by local organizations, institutions, and/or businesses.	1	2	3	4	5

7. In the left section, please rate each of the following in terms of its **importance** for effective science instruction in the grades you teach. In the right section, please indicate how **prepared** you feel to do each one. (Darken one oval in each section on each line.)

	Importance				Preparation			
	Not Important	Some-what Important	Fairly Important	Very Important	Not Adequately Prepared	Some-what Prepared	Fairly Well Prepared	Very Well Prepared
a. Provide concrete experience before abstract concepts.	1	2	3	4	1	2	3	4
b. Develop students' conceptual understanding of science.	1	2	3	4	1	2	3	4
c. Take students' prior understanding into account when planning curriculum and instruction.	1	2	3	4	1	2	3	4
d. Make connections between science and other disciplines.	1	2	3	4	1	2	3	4
e. Have students work in cooperative learning groups.	1	2	3	4	1	2	3	4
f. Have students participate in appropriate hands-on activities.	1	2	3	4	1	2	3	4
g. Engage students in inquiry-oriented activities.	1	2	3	4	1	2	3	4
h. Use computers.	1	2	3	4	1	2	3	4
i. Engage students in applications of science in a variety of contexts.	1	2	3	4	1	2	3	4
j. Use performance-based assessment.	1	2	3	4	1	2	3	4
k. Use portfolios.	1	2	3	4	1	2	3	4
l. Use informal questioning to assess student understanding.	1	2	3	4	1	2	3	4

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8. 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

9. Many teachers feel better prepared to teach some subject areas than others. How well prepared do you feel to teach each of the following subjects at the grade levels you teach, whether or not they are currently included in your curriculum? (Darken one oval on each line.)

	Not Adequately Prepared	Somewhat Prepared	Fairly Well Prepared	Very Well Prepared
a. Science	1	2	3	4
b. Mathematics	1	2	3	4
c. Reading/Language Arts	1	2	3	4
d. Social Studies	1	2	3	4

10. Within science, many teachers feel better prepared to teach some topics than others. How well prepared do you feel to teach each of the following topics at the grade levels you teach, whether or not they are currently included in your curriculum? (Darken one oval on each line.)

	Not Adequately Prepared	Somewhat Prepared	Fairly Well Prepared	Very Well Prepared
a. The human body	1	2	3	4
b. Ecology	1	2	3	4
c. Rocks and soils	1	2	3	4
d. Astronomy	1	2	3	4
e. Processes of change over time (e.g., evolution)	1	2	3	4
f. Mixtures and solutions	1	2	3	4
g. Electricity	1	2	3	4
h. Sound	1	2	3	4
i. Forces and motion	1	2	3	4
j. Machines	1	2	3	4
k. Engineering and design principles (e.g., structures, models)	1	2	3	4

11. 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.	1	2	3	4
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.	1	2	3	4

12. Please rate the effect of each of the following on your science instruction. (Darken one oval on each line.)

	Inhibits Effective Instruction		Neutral or Mixed		Encourages Effective Instruction	N/A / Don't Know
a. State and/or district curriculum frameworks.	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
b. State and/or district testing policies and practices.	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
c. Quality of available instructional materials.	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
d. Access to computers for science instruction.	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
e. Funds for purchasing equipment and supplies for science.	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
f. System of managing instructional resources at the district or school level.	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
g. Time available for teachers to plan and prepare lessons.	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
h. Time available for teachers to work with other teachers.	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
i. Time available for teacher professional development.	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
j. Importance that the school places on science.	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
k. Consistency of science reform efforts with other school/district reforms.	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA
l. Public attitudes toward reform.	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5	<input type="radio"/> NA

13. How many of your students' parents do each of the following? (Darken one oval on each line.)

	None	A Few	About 1/2	Almost All
a. Volunteer to assist with class activities.	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3
b. Donate money or materials for classroom instruction.	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3
c. Attend parent-teacher conferences.	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3
d. Attend school activities such as PTA meetings and Family Science nights.	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3
e. Voice support for the use of an investigative approach to science instruction.	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3
f. Voice support for traditional approaches to science instruction.	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3

C. Your Science Teaching

Questions 14-22 ask about your science teaching. Please answer for your first elementary/middle school science class of the day.

14. What grade level is this class? K 1 2 3 4 5 6 7 8
(Darken all ovals that apply.) K 1 2 3 4 5 6 7 8

15. Do you teach in a self-contained classroom (i.e., you are responsible for teaching several subjects to one class)? (Darken one oval.)

- Yes
 No (Skip to Question 21)

16. How many lessons per week do you typically teach science to this class? (Darken one oval.)

Number of Lessons

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 0 1 2 3 4 5

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17. Approximately how many minutes is a typical science lesson? (Darken one oval.)

Average Number of Minutes per Lesson

10 or fewer	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81 or more
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

18. How many science units has this class worked on so far this academic year? (We are defining a "unit" as a series of related activities, often on a single topic such as sound, rocks, or genetics.) (Darken one oval.)

0	1	2	3	4	5	6	7	8	9 or more
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

19. How long do your science units typically last? (Darken one oval.)

<input type="radio"/> One week	<input type="radio"/> Six weeks
<input type="radio"/> Two weeks	<input type="radio"/> Seven weeks
<input type="radio"/> Three weeks	<input type="radio"/> Eight weeks
<input type="radio"/> Four weeks	<input type="radio"/> Nine weeks
<input type="radio"/> Five weeks	<input type="radio"/> Ten or more weeks

20. In how many of the last five school days did you teach each of the following in this class? (Darken one oval on each line.)

Number of Days

	None	One	Two	Three	Four	Five
a. Science	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
b. Mathematics	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
c. Reading/Language Arts	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
d. Social Studies	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5

21. About how often do **you** do each of the following in your science instruction in this class? (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. Use the LSC-designated instructional materials (see cover letter) as the basis of science lessons.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
b. Introduce content through formal presentations.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
c. Demonstrate a science-related principle or phenomenon.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
d. Teach science using real-world contexts.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
e. Arrange seating to facilitate student discussion.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
f. Use open-ended questions.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
g. Require students to supply evidence to support their claims.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
h. Encourage students to explain concepts to one another.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
i. Encourage students to consider alternative explanations.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
j. Allow students to work at their own pace.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
k. Help students see connections between science and other disciplines.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
l. Use assessment to find out what students know before or during a unit.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
m. Embed assessment in regular class activities.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
n. Assign science homework.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
o. Read and comment on the reflections students have written in their notebooks or journals.	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5

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22. 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 computers.	1	2	3	4	5
w. Work on portfolios.	1	2	3	4	5
x. Take short-answer tests (e.g., multiple choice, true/false, fill-in-the-blank).	1	2	3	4	5
y. Take tests requiring open-ended responses (e.g., descriptions, explanations).	1	2	3	4	5
z. Engage in performance tasks for assessment purposes.	1	2	3	4	5

D. LSC Professional Development

Questions 23-28 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 28.**

23. 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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24. 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

25. 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

26. 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"/>

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

	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

28. 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

