

Appendix G
Science Teacher Questionnaire

X1. What is the name of the college/university where you earned your master's degree?

College/University

2b. Was this degree awarded by a college/university's school or department of education?

- Yes
 No

2c. What was your major field of study?

3. Have you earned any of the degrees or certificates listed below?

[If so, same three sub questions for each that applies]

- Vocational certificate
 Associate's degree
 SECOND Bachelor's degree
 SECOND Master's degree
 Educational specialist or professional diploma (at least one year beyond master's level)
 Certificate of Advanced Graduate Studies
 Doctorate or first professional degree

4. Which of the following college courses have you completed?

- Chemistry
 Earth/Space Sciences
 Environmental Sciences
 Life Sciences
 Physics
 Other

5. How many college science courses have you completed?

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6. Which of the following describes the teaching certificate you currently hold in THIS state?

- Regular or standard state certificate or advanced professional certificate

- Certificate issued after satisfying all requirements except the completion of a probationary period
- Certificate that requires some additional coursework, student teaching, or passing a test before regular certification can be obtained
- Certificate issued to persons who must complete a certification program in order to continue teaching
- I do not hold any of the above certifications in THIS state → Skip to question 8

7. In which grades does this certificate allow you to teach science in THIS state? (Select all that apply)

- Any grade, kindergarten – 5th
- Any grade, 6th – 8th
- Any grade, 9th – 12th (biology/life sciences)
- Any grade, 9th – 12th (chemistry/physics/physical science)
- Any grade, 9th – 12th (earth/space sciences)
- Any grade, 9th – 12th (other science)

8. Did you enter teaching through an alternative certification program?

- Yes
- No

X1. Did you work in a field or a job in which you used science before becoming a teacher?

- Yes
- No

9. Are you male or female?

- Female
- Male

10. Are you of Hispanic or Latino origin?

- Yes
- No

11. What is your race? (Mark all that apply)

- White
- Black/African American
- Asian
- Native Hawaiian or Other Pacific Islander
- American Indian or Alaska Native

12a. Including this year, how many years in total have you taught at the elementary level (K-8)?

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 Years

12b. How many years in total have you taught in the secondary level (9-12)?

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 Years

12c. How many years have you taught any grades (K-12)?

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 Years

13. Counting this year, how many years have you taught science at the secondary level (9-12)?

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 Years

14. Counting this year, how many years in total have you taught in this school?

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 Years

15. Are you currently collecting a pension from a teacher retirement system or drawing money from a school/system sponsored 401(k) or 403(b) plan which includes funds you contributed as a teacher?

- Yes
- No

16. Indicate the extent to which you agree or disagree with each of the following statements as it applies to your science instruction:

	Strongly Disagree	Disagree	Agrees	Strongly Agree
a. The amount a student can learn is primarily related to family background.	○	○	○	○
b. If students aren't disciplined at home, they aren't likely to accept any discipline.	○	○	○	○
c. A teacher is very limited in what he/she can achieve because a student's home environment is a large influence on his/her achievement.	○	○	○	○
d. If parents would do more for their children, I could do more for my students.	○	○	○	○
e. If a student did not remember information I gave in a previous lesson, I would know how to increase his/her retention in the next lesson.	○	○	○	○
f. If a student in my class becomes disruptive and noisy, I feel assured that I know some techniques to redirect him/her quickly.	○	○	○	○
g. If one of my students can't do a class assignment, I am able to accurately assess whether the assignment was at the correct level of difficulty.	○	○	○	○
h. If I really try hard, I can get through to even the most difficult or unmotivated students.	○	○	○	○
i. When it comes right down to it, a teacher really can't do much because most of a student's motivation and performance depends on his or her home environment.	○	○	○	○

17. How would you compare boys and girls in...

	Girls are much better	Girls are somewhat better	Girls and boys are the same	Boys are somewhat better	Boys are much better
a. Reading	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Math	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Writing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

18. Indicate the extent to which you agree or disagree with each of the following statements about science teachers at this school:

	Strongly Disagree	Disagree	Agree	Strongly Agree
a. Science teachers set high standards for teaching.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Science teachers set high standards for students' learning.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Science teachers in this school believe all students can do well.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Science teachers make expectations for instructional goals clear to students.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Science teachers in this school give up on some students.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Science teachers in this school care only about smart students.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Science teachers in this school expect very little from students.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Science teachers in this school work hard to make sure all students are learning.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

19. Which of the following best describes this science course?

- Anatomy/ Physiology
- Biology I
- Biology II
- Biology AP
- Chemistry I
- Chemistry II
- Chemistry AP
- Earth Science
- Environmental Science
- Integrated Science I
- Integrated Science II
- Integrated Science III
- Integrated Science IV
- Physical Science
- Physics I
- Physics II
- Physics AP
- Other Science Course: _____
- O

For each class in which an HSLs student is enrolled:

(Note: program prompts the teacher; the linkage to class is preloaded into the computer.)

20. What textbook/program is primarily used in this class?

- Publisher
- Title
- Edition

21. Approximately what percentage of the designated textbook/program do you plan to cover this school year?

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22. What percentage of the instructional time in this class do you anticipate will be based on the following:

Primary science textbook/program

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Other textbooks/programs

--	--	--

Other commercially available instructional materials

--	--	--

Materials obtained at conferences/conventions

(e.g., National Science Teachers' Association)

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Materials created by you

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Other (please specify) _____ [field test only]

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23. Thinking of a typical student in this class, which of the following best describes the difficulty level of the primary textbook/program? (Mark one)

- It is much too easy
- It is somewhat too easy
- It is at the appropriate level
- It is somewhat too difficult
- It is much too difficult

24. How often do you plan the designated science textbook/program will be used in each of the following ways:

	Never	Rarely	Some- times	Often	All the time
a. I will follow the textbook/program page by page.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. I will pick what is important from the textbook/program and skip the rest.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. I will follow my district's curriculum recommendations regardless of what is in the textbook/program.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. The textbook/program will guide the structure (content emphasis) of my course.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. I will incorporate activities from other sources to supplement what the textbook/program is lacking.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. I will read and review suggestions in the textbook's/program's teacher guide to plan my lessons.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. I will use the student textbook/program to plan my lessons.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. I will assign homework from the textbook/program.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. My students will use their textbook/program during the science lesson.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. My students will use their textbook/program for homework assignments.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

25. What percent of assessment materials that you plan to use in this class for determining student grades will be test items:

Included with the primary textbook/program

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Drawn from other commercially available materials

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Developed by the school/district

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Developed by you

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Other (please specify) _____ [field test only]

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26. To what extent do you agree or disagree with each of the following statements about how high school science teaching assignments are made in this school?

	Strongly Disagree	Disagree	Agree	Strongly Agree
a. Advanced courses are assigned to teachers with the most seniority	○	○	○	○
b. Advanced courses are assigned to teachers with the strongest science background	○	○	○	○
c. All or most science teachers are assigned at least one section of advanced courses	○	○	○	○
d. Non-college prep courses are assigned to teachers new to the profession	○	○	○	○
e. Non-college prep courses are assigned to teachers whose students don't perform well on standardized tests.	○	○	○	○
f. All or most science teachers are assigned at least one section of a non-college prep course.	○	○	○	○

27. To what extent is each of the following a problem in this school?

	Not applicable	Not at all	A little	Some	A lot
a. Student tardiness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Student absenteeism	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Student class cutting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Teacher absenteeism	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Students dropping out	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Student apathy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Lack of parental involvement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Poverty	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. Students coming to school unprepared to learn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. Poor student health	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k. Lack of resources and materials for teachers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

28. In your view, to what extent do the following limit how you teach?

	Not applicable	Not at all	A little	Some	A lot
a. Students with different academic abilities in the same class	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Students who come from a wide range of socio-economic backgrounds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Students who come from a wide range of language backgrounds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Students with special needs (e.g., hearing, vision, speech impairment, physical disabilities, mental or emotional/psychological impairment)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Uninterested students	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Low morale among students	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Disruptive students	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Shortage of computer hardware/software	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. Shortage of support for using computers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. Shortage of textbooks for student use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k. Shortage of other instructional equipment for students' use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
l. Shortage of equipment for use in demonstrations and other exercises	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
m. Inadequate physical facilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
n. High student/teacher ratio	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
o. Lack of planning time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
p. Lack of autonomy in instructional decisions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
q. Lack of parent/family support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
r. Inadequate opportunities for professional development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
s. Inadequate administrative support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

29. Please indicate the extent to which you agree or disagree with each of the following statements:

	Strongly Agree	Agree	Disagree	Strongly Disagree
a. The principal deals effectively with pressures from outside the school that might interfere with my teaching	O	O	O	O
b. The principal does a poor job of getting resources for this school	O	O	O	O
c. The principal sets priorities, makes plans, and sees that they are carried out	O	O	O	O
d. The principal knows what kind of school he/she wants and has communicated it to the staff	O	O	O	O
e. The principal lets staff members know what is expected of them	O	O	O	O
f. The principal is interested in innovation and new ideas	O	O	O	O
g. The principal usually consults with staff members before he/she makes decisions that affect us	O	O	O	O

30. To what extent do you agree or disagree with each of the following statements about the Science department in this school.

	Strongly Agree	Agree	Disagree	Strongly Disagree
a. Science teachers share ideas on teaching	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Science teachers discuss what was learned at a workshop or conference	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Science teachers share and discuss student work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Science teachers discuss particular lessons that were not very successful	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Science teachers in this department discuss beliefs about teaching and learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Science teachers in this department share and discuss research on effective teaching methods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Science teachers in this department share and discuss research on effective instructional practices for English language learners	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Science teachers in this department explore new teaching approaches for under-performing students	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. Science teachers in this department make a conscious effort to coordinate the content of courses with other teachers in the school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. Science teachers in this department are effective at teaching students science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k. Science teachers in this department provide support to new science teachers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
l. The science department's chair or curricular area coordinator's behavior toward the staff is supportive and encouraging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

31. Indicate the extent to which you agree or disagree with each of the following statements:

	Strongly Agree	Agree	Disagree	Strongly Disagree
a. Teachers in this school help maintain discipline in the entire school, not just their classroom.	O	O	O	O
b. Teachers in this school take responsibility for improving the school.	O	O	O	O
c. Teachers in this school set high standards for themselves.	O	O	O	O
d. Teachers in this school feel responsible for helping students develop self-control.	O	O	O	O
e. Teachers in this school feel responsible to help each other do their best.	O	O	O	O
f. Teachers in this school feel responsible that all students learn.	O	O	O	O
g. Teachers in this school feel responsible when students in this school fail.	O	O	O	O