THE NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

Wave 2 Submittal for 2008

VOLUME II

Part 4 of 8

BACKGROUND QUESTIONS

FOR 2008 ASSESSMENT

Teacher Grade 4 (Background, Education, Training; Reading, Mathematics, Science)

Volume II contains:

- Part 1 of 8 - Student Grade 4: Pilot Science; Reading Braided Study
- Part 2 of 8 - Student Grade 8: Pilot Science; Reading Braided Study
- Part 3 of 8 - Student Grade 12: Pilot Science

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June 29, 2007

TEACHER QUESTIONNAIRES

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Teacher Questionnaire

Grade 4

Part I: Background, Education, & Training

For some questions on this survey, you are asked to fill in numbers. For these questions, please print the appropriate number in each of the boxes provided. Please print legibly with a No. 2 pencil. Keep all printing within the boxes, and erase any stray marks.

Using one number per box, fill in every box. For example, 95 students would be written as:

1. Are you Hispanic or Latino? Fill in **one or more ovals**. (VB331330) [4/8]

   A No, I am not Hispanic or Latino.

   B Yes, I am Mexican, Mexican American, or Chicano.

   C Yes, I am Puerto Rican or Puerto Rican American.

   D Yes, I am Cuban or Cuban American.

   E Yes, I am from some other Hispanic or Latino background.

2. Which of the following best describes you? Fill in **one or more ovals**. (VB331331) [4/8]

   A White

   B Black or African American

   C Asian

   D American Indian or Alaska Native

   E Native Hawaiian or other Pacific Islander

3. Counting this year, how many years have you worked as an elementary or secondary teacher? Include any full-time teaching assignments, part-time teaching assignments, and long-term substitute assignments, but not student teaching. If less than 4 months total experience, enter "00." (VB333653) [4]

☐☐ Years

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

(An alternative program is a program that was designed to expedite the transition of non-teachers to a teaching career, for example, a state, district, or university alternative certification program.) (NEW) [4/8]

A Yes

B No

5. What type of teaching certificate do you hold in the state where you currently teach? (NEW) [4/8]

A Regular or standard state certificate or advanced professional certificate → *Skip to Question 7*

B Certificate issued after satisfying all requirements except the completion of a probationary period → *Go to Question 6*

C Certificate that requires some additional coursework, student teaching or passage of a test before regular certification can be obtained → *Go to Question 6*

D Certificate issued to persons who must complete a certification program in order to continue teaching → *Go to Question 6*

E I do not hold any of the above certificates in the state where I currently teach → *Go to Question 6*

6. Do you hold a currently valid regular or standard certification from a state other than the one in which you are currently teaching? (VB595188) [4/8]

A Yes

B No

7. This school year, are you a Highly Qualified Teacher (HQT) according to your state's requirements?

   (Generally, to be Highly Qualified, teachers must meet requirements related to 1) a bachelor's degree, 2) full state certification, and 3) demonstrate competency in the subject area(s) taught. The HQT requirement is a provision under the No Child Left Behind (NCLB) Act.) (NEW) [4/8]

   A Yes

   B I meet my state's requirements for a Highly Qualified Teacher in at least one subject that I teach.

   C No

8. Are you certified by the National Board for Professional Teaching Standards in at least one content area?

   (The National Board for Professional Teaching Standards is a nongovernmental organization that administers National Board certification, a voluntary national assessment program that certifies teachers who meet high professional standards. In order to gain certification, the candidate must at least complete a portfolio of classroom practice and pass one or more tests of content knowledge.) (NEW) [4/8]

   A Yes, I am fully certified by the National Board for Professional Teaching Standards.

   B I am working towards my National Board certification.

   C No

9. What is the highest academic degree you hold? (HE001012) [4/8]

   A High-school diploma

   B Associate's degree/vocational certification

   C Bachelor's degree

   D Master's degree

   E Education specialist's or professional diploma based on at least one year's work past master's degree

   F Doctorate

   G Professional degree (e.g., M.D., LL.B., J.D., D.D.S.)

10. Did you have a major, minor, or special emphasis in any of the following subjects as part of your **undergraduate** coursework? Fill in **one** oval on each line. (VB333658) [4/8]

	Yes, a major	Yes, a minor or special emphasis	No	[Same at:]	
a. Mathematics education	A	B	C	[4/8]	(VB482657)
b. Mathematics	A	B	C	[4/8]	(VB482658)
c. Other mathematics-related subject such as statistics	A	B	C	[4/8]	(VB608497)
d. Reading, language arts, or literacy education	A	B	C	[4/8]	(VB378391)
e. English	A	B	C	[4/8]	(VB378392)
f. Other language arts-related subject	A	B	C	[4/8]	(VB378394)
g. Science education	A	B	C	[4]	(VB556070)
h. Biology or other life science	A	B	C	[4]	(VB595990)
i. Physics, chemistry, or other physical science	A	B	C	[4]	(VB595991)
j. Engineering or engineering education	A	B	C	[4]	(NEW)
k. Earth or space science	A	B	C	[4]	(VB595992)
l. Other science-related subject	A	B	C	[4]	(VB556071)
m. Education (including elementary or early childhood)	A	B	C	[4]	(VB482660)

11. Did you have a major, minor, or special emphasis in any of the following subjects as part of your **graduate** coursework? Fill in **one** oval on each line. (VB345619) [4/8]

	Yes, a major	Yes, a minor or special emphasis	No	[Same at:]	
a. Mathematics education	A	B	C	[4/8]	(VB473837)
b. Mathematics	A	B	C	[4/8]	(VB473838)
c. Other mathematics-related subject such as statistics	A	B	C	[4/8]	(VB473839)
d. Reading, language arts, or literacy education	A	B	C	[4/8]	(VB378395)
e. English	A	B	C	[4/8]	(VB378396)
f. Other language arts-related subject	A	B	C	[4/8]	(VB378398)
g. Science education	A	B	C	[4]	(VB556072)
h. Biology or other life science	A	B	C	[4]	(VB595994)
i. Physics, chemistry, or other physical science	A	B	C	[4]	(VB595995)
j. Engineering or engineering education	A	B	C	[4]	(NEW)
k. Earth or space science	A	B	C	[4]	(VB595996)
l. Other science-related subject	A	B	C	[4]	(VB556073)
m. Education (including elementary or early childhood)	A	B	C	[4]	(VB473840)

12 As part of either your undergraduate or graduate coursework, how many **advanced science** courses (such as physiology, molecular biology, or biochemistry) did you take? (NEW) [4/8]

A None

B 1 or 2 courses

C 3 or 4 courses

D 5 or more courses

13. As part of either your undergraduate or graduate coursework, how many **science education** courses did you take? (NEW) [4/8]

A None

B 1 or 2 courses

C 3 or 4 courses

D 5 or more courses

14. Consider all of the professional development activities you participated in during the last **two years**. To what extent did you learn about each of the following topics? Fill in **one** oval on each line. (VB543441) [4/8]

	Not at all	Small extent	Moderate extent	Large extent	[Same at:]	
a. How students learn mathematics	A	B	C	D	[4/8]	(VB543502)
b. Mathematics theory or applications	A	B	C	D	[4/8]	(VB543503)
c. Content standards in mathematics	A	B	C	D	[4/8]	(VB543504)
d. Curricular materials available in mathematics (units, texts)	A	B	C	D	[4/8]	(VB543505)
e. Instructional methods for teaching mathematics	A	B	C	D	[4/8]	(VB543506)
f. Effective use of manipulatives in mathematics instruction	A	B	C	D	[4/8]	(VB519181)
g. Effective use of calculators in mathematics instruction	A	B	C	D	[4/8]	(VB543507)
h. Use of computers or other technology in mathematics instruction	A	B	C	D	[4/8]	(VB543508)
i. Methods for assessing students in mathematics	A	B	C	D	[4/8]	(VB543509)
j. Preparation of students for district and state assessments	A	B	C	D	[4/8]	(VB543510)
k. Issues related to ability grouping in mathematics	A	B	C	D	[4/8]	(VB543511)
l. Strategies for teaching mathematics to students from diverse backgrounds (including English language learners)	A	B	C	D	[4/8]	(VB543512)

15. Consider all of the professional development activities you participated in during the last **two years**. To what extent did you learn about each of the following topics? Fill in **one** oval on each line. (NEW) [4/8]

	Not at all	Small extent	Moderate extent	Large extent	[Same at:]	
a. How students learn reading	A	B	C	D	[4]	(NEW)
b. Content standards in reading	A	B	C	D	[4]	(NEW)
c. Curricular materials available in reading (units, texts)	A	B	C	D	[4]	(NEW)
d. Instructional methods for teaching reading	A	B	C	D	[4]	(NEW)
e. Methods for assessing students in reading	A	B	C	D	[4]	(NEW)
f. Preparation of students for district and state assessments	A	B	C	D	[4/8]	(NEW)
g. Strategies for teaching reading to students from diverse backgrounds (including English language learners)	A	B	C	D	[4]	(NEW)

16. Consider all of the professional development activities you participated in during the last **two years**. To what extent did you learn about each of the following topics? Fill in **one** oval on each line. (NEW) [4/8]

		Not at all	Small extent	Moderate extent	Large extent	[Same at:]	
a.	How students learn science	A	B	C	D	[4/8]	(NEW)
b.	Scientific inquiry and/or technological design	A	B	C	D	[4/8]	(NEW)
c.	Content standards in science	A	B	C	D	[4/8]	(NEW)
d.	Curricular materials available in science (units, texts)	A	B	C	D	[4/8]	(NEW)
e.	Instructional methods for teaching science	A	B	C	D	[4/8]	(NEW)
f.	Instructional methods for teaching technological design	A	B	C	D	[4/8]	(NEW)
g.	Effective use of laboratory activities in science instruction	A	B	C	D	[4/8]	(NEW)
h.	Effective use of information and communication technology (ICT) in science instruction	A	B	C	D	[4/8]	(NEW)
i.	Methods for assessing students in science	A	B	C	D	[4/8]	(NEW)
j.	Preparation of students for district and state assessments	A	B	C	D	[4/8]	(NEW)
k.	Strategies for teaching science to students from diverse backgrounds (including English language learners)	A	B	C	D	[4/8]	(NEW)

17. During the last **two years**, did you participate in any of the following professional development activities **related to the teaching of language arts, science, or mathematics?** Language arts refers to reading, writing, literature, and related topics. Fill in **one or more** ovals on each line. (VB556178) [4]

	Yes, related to language arts	Yes, related to science	Yes, related to mathematics	No	[Same at:]	
a. College course taken after your first certification	A	B	C	D	[4]	(VB556179)
b. Workshop or training session	A	B	C	D	[4]	(VB556180)
c. Conference or professional association meeting	A	B	C	D	[4]	(VB556181)
d. Observational visit to another school	A	B	C	D	[4]	(VB561282)
e. Mentoring and/or peer observation and coaching as part of a formal arrangement	A	B	C	D	[4]	(VB561283)
f. Committee or task force focusing on curriculum, instruction, or student assessment	A	B	C	D	[4]	(VB561284)
g. Regularly scheduled discussion or study group	A	B	C	D	[4]	(VB561285)
h. Teacher collaborative or network (such as one organized by an outside agency or over the Internet)	A	B	C	D	[4]	(VB561286)
i. Individual or collaborative research	A	B	C	D	[4]	(VB561287)
j. Independent reading on a regular basis (for example, educational journals, books, or the Internet)	A	B	C	D	[4]	(VB561288)
k. Co-teaching/team teaching	A	B	C	D	[4]	(VB561289)
l. Consultation with a subject specialist	A	B	C	D	[4]	(VB561290)

18. Did you lead any of the activities listed in the previous question (Q17)? (NEW) [4]

A Yes

B No

19. During the last **two years**, have you received training from any source in any of the following areas? Fill in **one** oval on each line. (NEW) [4/8]

	No, I am already proficient	No, I have not	Yes	[Same at:]	
a. Basic computer training	A	B	C	[4/8]	(NEW)
b. Software applications	A	B	C	[4/8]	(NEW)
c. Use of the Internet	A	B	C	[4/8]	(NEW)
d. Use of other technology (for example, satellite access, wireless Web, interactive video, closed-circuit TV, videoconferencing)	A	B	C	[4/8]	(NEW)
e. Integration of computers and other technology into classroom instruction	A	B	C	[4/8]	(NEW)

20. Do you have special leadership responsibilities for the following subjects at your school (for example, responsibilities as a mentor teacher, lead teacher, resource specialist, departmental chair, or master teacher)? (VB556174) [4]

	Yes	No	[Same at:]	
a. Reading/language arts	A	B	[4]	(VB556175)
b. Mathematics	A	B	[4]	(VB556176)
c. Science	A	B	[4]	(NEW)

21. During the last **two years** have you participated in activities associated with school improvement efforts directed at issues such as adequate yearly progress and state accountability standards? (NEW) [4/8]

A Yes

B No

Teacher Questionnaire

Grade 4

Part II: Classroom Organization and Instruction – General

The following questions ask about the organization of your classroom. If you teach more than one fourth-grade class, please pick a single one of these classes to use as the basis for answering the questions about classroom organization.

1. How many students are in this class? (VB473856) [4/8]

   A 15 or fewer
   B 16–18
   C 19–20
   D 21–25
   E 26 or more

2. In your fourth-grade class, are computers or other technological resources available for use by your students? (NEW) [4]

   A Yes → *Go to Question 3*
   B No → *Skip to Part III*

3. In your fourth-grade class this year, which of the following technological resources do you use for reading, mathematics or science instruction? Fill in **one** oval on each line. (NEW) [4]

		Yes	No	[Same at:]	
a.	Desktop computer	A	B	[4]	(NEW)
b.	Laptop computer	A	B	[4]	(NEW)
c.	Tablet PC (notebook-like computer that allows users to write or draw through the use of a stylus or touch-screen)	A	B	[4]	(NEW)
d.	Digital projector (device that connects to a computer to display presentations, demonstrate lessons, such as an LCD)	A	B	[4]	(NEW)
e.	CD-ROM software	A	B	[4]	(NEW)
f.	Online software	A	B	[4]	(NEW)
g.	Digital music device (pocket-sized music player used to listen to or create audio files, such as an MP3 player)	A	B	[4]	(NEW)
h.	Cable/satellite/closed-circuit television	A	B	[4]	(NEW)
i.	DVD player and DVDs	A	B	[4]	(NEW)
j.	Digital camera	A	B	[4]	(NEW)
k.	Graphing calculator	A	B	[4]	(NEW)
l.	Handheld device (pocket-sized computing device, such as personal digital assistant or smartphone)	A	B	[4]	(NEW)
m.	Data collection sensors/probes (tool that connects to a handheld device or graphing calculator and detects motion, pH, temperature, light)	A	B	[4]	(NEW)
n.	Online course management system (web-based software used to organize information, assignments, grades, and discussions)	A	B	[4]	(NEW)
o.	Digital whiteboard (computerized display panels that can respond to fingertip command and creates a shared interactive space, akin to traditional chalkboards)	A	B	[4]	(NEW)

Teacher Questionnaire
Grade 4

Part III: Classroom Organization and Instruction – Reading

The following questions ask about the organization of your classroom for reading instruction. If you teach more than one fourth-grade class, please pick a single one of these classes to use as the basis for answering the questions about classroom organization for reading instruction.

1. Which best describes your role in teaching **reading** to this class? (NEW) [4/8]

   A I do not teach reading to this class. → *Skip to Part IV*

   B I teach all or most subjects, including reading. → *Go to Question 2*

   C The only subject I teach is reading. → *Go to Question 2*

   D We team teach, and I have primary responsibility for teaching reading. → *Go to Question 2*

2. How many hours of reading instruction do your students receive in a typical week? Fill in **one** oval. (NEW) [4]

   A Less than 3 hours

   B At least 3 hours, but less than 5 hours

   C At least 5 hours, but less than 7 hours

   D At least 7 hours, but less than 10 hours

   E At least 10 hours, but less than 12 hours

   F 12 or more hours

3. Which best describes how language arts instruction is organized? Language arts refers to reading, writing, literature, and related topics. Fill in **one** oval. (VB473859) [4]

   A Language arts is taught primarily as a discrete subject with little or no integration with instruction in other subjects.

   B Some language arts instruction is integrated with other subjects, and some language arts instruction is presented as a discrete subject.

   C Language arts lessons are primarily integrated with instruction in other subjects.

4. To what extent have you covered the following in reading class so far this year? Fill in **one** oval on each line. (NEW) [4]

	Not at all	Small extent	Moderate extent	Large extent	[Same at:]	
a. Fiction	A	B	C	D	[4]	(NEW)
b. Literary nonfiction	A	B	C	D	[4]	(NEW)
c. Poetry	A	B	C	D	[4]	(NEW)
d. Exposition	A	B	C	D	[4]	(NEW)
e. Argumentation and persuasion	A	B	C	D	[4]	(NEW)
f. Procedural texts and documents	A	B	C	D	[4]	(NEW)

5. To what extent have you emphasized the following cognitive processes when reading informational and literary texts in class? Fill in **one** oval on each line. (NEW) [4]

	Not at all	Small extent	Moderate extent	Large extent	[Same at:]	
a. Locate/Recall	A	B	C	D	[4]	(NEW)
b. Integrate/Interpret	A	B	C	D	[4]	(NEW)
c. Critique/Evaluate	A	B	C	D	[4]	(NEW)

6. How often do you do the following things as part of reading instruction with this class? Fill in **one** oval on each line. (VB608499) [4]

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day	[Same at:]	
a. Ask students to read aloud	A	B	C	D	[4]	(VB608500)
b. Ask students to write about something they have read	A	B	C	D	[4]	(VB608582)
c. Give students time to read books they have chosen themselves	A	B	C	D	[4]	(VB608585)
d. Ask students to do a group activity or project about what they have read	A	B	C	D	[4]	(VB608586)
e. Ask students to explain or support their understanding of what they have read	A	B	C	D	[4]	(VB608588)
f. Watch movies, videos, filmstrips, television; or listen to tapes, compact discs, or records	A	B	C	D	[4]	(VB608589)
g. Ask students to make predictions about what they read as they are reading it	A	B	C	D	[4]	(VB608592)

7. When you teach reading, do you do any of the following? Fill in **one** oval on each line. (NEW) [4]

	Yes	No	[Same at:]	
a. I set different achievement standards for some students.	A	B	[4]	(NEW)
b. I supplement the regular course curriculum with additional material for some students.	A	B	[4]	(NEW)
c. I have some students engage in different classroom activities.	A	B	[4]	(NEW)
d. I use a different set of methods in teaching some students.	A	B	[4]	(NEW)
e. I pace my teaching differently for some students.	A	B	[4]	(NEW)

8. Do you meet with students one-on-one to review their work and evaluate their progress in reading? (NEW) [4]

   A Yes

   B No

9. In your fourth-grade class this year, how often do your students use a **computer or other technological resources** to do each of the following? Fill in **one** oval on each line. (NEW) [4]

	Never or hardly ever	Sometimes	Always or almost always	[Same at:]	
a. To build and practice vocabulary	A	B	C	[4]	(NEW)
b. To increase reading fluency and comprehension	A	B	C	[4]	(NEW)
c. To practice spelling and grammar	A	B	C	[4]	(NEW)
d. To write reports	A	B	C	[4]	(NEW)
e. To read books using the computer	A	B	C	[4]	(NEW)
f. To access reading-related websites (for example, websites with lists of recommended books)	A	B	C	[4]	(NEW)
g. To conduct research for reading projects	A	B	C	[4]	(NEW)
h. To correspond with teachers or students from other schools using e-mail, blogs or chat rooms	A	B	C	[4]	(NEW)

10. Which of the following statements best expresses how well your school system provides you with the materials and other resources you need for **reading** instruction? (NEW) [4]

A I do not have the resources I need.

B I have some of the resources I need.

C I have most of the resources I need.

D I have all of the resources I need.

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Teacher Questionnaire
Grade 4

Part IV: Classroom Organization and Instruction – Mathematics

The following questions ask about the organization of your classroom for mathematics instruction. If you teach more than one fourth-grade class, please pick a single one of these classes to use as the basis for answering the questions about classroom organization for mathematics.

1. Which best describes your role in teaching **mathematics** to this class? (NEW) [4/8]

   A I do not teach mathematics to this class. → *Skip to Part V*

   B I teach all or most subjects, including mathematics. → *Go to Question 2*

   C The only subject I teach is mathematics. → *Go to Question 2*

   D We team teach, and I have primary responsibility for teaching mathematics. → *Go to Question 2*

2. How many hours of mathematics instruction do your students receive in a typical week? (VB543515) [4]

   A Less than 3 hours

   B At least 3 hours, but less than 5 hours

   C At least 5 hours, but less than 7 hours

   D 7 or more hours

3. To what extent have you covered the following concepts in mathematics class so far this year? Fill in **one** oval on each line. (NEW) [4/8]

	Not at all	Small extent	Moderate extent	Large extent	[Same at:]	
a. Numbers and operations	A	B	C	D	[4/8]	(NEW)
b. Measurement	A	B	C	D	[4/8]	(NEW)
c. Geometry	A	B	C	D	[4/8]	(NEW)
d. Data analysis, statistics, and probability (informal introduction of concepts)	A	B	C	D	[4/8]	(NEW)
e. Algebra and functions (informal introduction of concepts)	A	B	C	D	[4/8]	(NEW)

4. When you teach mathematics, do you do any of the following? Fill in **one** oval on each line. (NEW) [4]

	Yes	No	[Same at:]	
a. I set different achievement standards for some students.	A	B	[4]	(NEW)
b. I supplement the regular course curriculum with additional material for some students.	A	B	[4]	(NEW)
c. I have some students engage in different classroom activities.	A	B	[4]	(NEW)
d. I use a different set of methods in teaching some students.	A	B	[4]	(NEW)
e. I pace my teaching differently for some students.	A	B	[4]	(NEW)

5. Do you meet with students one-on-one to review their work and evaluate their progress in mathematics? (NEW) [4/8]

A Yes

B No

6. To what extent are students permitted to use calculators during mathematics lessons? (VB543554) [4]

   A Unrestricted use

   B Restricted use

   C Calculators are not permitted

7. What kind of calculator do your students usually use during mathematics lessons? (VB535973) [4]

   A None

   B Basic four-function (addition, subtraction, multiplication, division)

   C Scientific (not graphing)

   D Graphing

8. When you give students a mathematics test or quiz, how often do they use a calculator? (VB535974) [4]

   A Never

   B Sometimes

   C Always

9. How often do your students use calculators for each of the following purposes? Fill in **one** oval on each line. (VB543556) [4]

	Never or almost never	Once or twice a month	Once or twice a week	Every day or almost every day	[Same at:]	
a. To work along with whole-class lessons led by you	A	B	C	D	[4]	(VB543557)
b. To "check their work" on problems they do on their own	A	B	C	D	[4]	(VB543558)
c. To calculate the answers to problems they do on their own	A	B	C	D	[4]	(VB543559)
d. To graph mathematical functions	A	B	C	D	[4]	(VB543560)

10. How often do you have students do each of the following types of computer activities related to mathematics? Fill in **one** oval on each line. (VB543519) [4]

	Never or almost never	Once or twice a month	Once or twice a week	Every day or almost every day	[Same at:]	
a. Practice or review mathematics topics on the computer	A	B	C	D	[4]	(VB543520)
b. Extend mathematics learning with enrichment activities on the computer	A	B	C	D	[4]	(VB543521)
c. Research a mathematics topic on the Internet or CD-ROM	A	B	C	D	[4]	(VB543542)
d. Work with a spreadsheet program	A	B	C	D	[4]	(VB543546)
e. Work with a word processing program for a mathematics assignment	A	B	C	D	[4]	(VB543547)
f. Use a drawing program for geometric shapes	A	B	C	D	[4]	(VB543548)
g. Use a graphing program	A	B	C	D	[4]	(VB543549)
h. Communicate via e-mail about mathematics	A	B	C	D	[4]	(VB543543)
i. Talk in chat groups about mathematics	A	B	C	D	[4]	(VB543544)
j. Play mathematics computer games	A	B	C	D	[4]	(VB543545)

Teacher Questionnaire
Grade 4

Part V: Classroom Organization and Instruction – Science

The following questions ask about the organization of your classroom for science instruction. If you teach more than one fourth-grade class, please pick a single one of these classes to use as the basis for answering the questions about classroom organization for science instruction.

1. Which best describes your role in teaching **science** to this class? Fill in **one** oval. (VB598092) [4]

   A I do not teach science to this class. → ***You have finished the survey. Thank you for your time.***

   B I teach all or most subjects, including science. → *Go to Question 2*

   C The only subject I teach is science. → *Go to Question 2*

   D We team teach, and I have primary responsibility for teaching science. → *Go to Question 2*

2. About how much time in total do you spend with this class on science instruction in a typical week? (VB608603) [4]

   A Less than 1 hour

   B 1–1.9 hours

   C 2–2.9 hours

   D 3–3.9 hours

   E 4 hours or more

3. To what extent do you emphasize each of the following objectives in teaching science to your fourth-grade class? Fill in **one** oval on each line. (NEW) [4]

	Not at all	Small extent	Moderate extent	Large extent	[Same at:]	
a. Teaching scientific facts and principles	A	B	C	D	[4]	(NEW)
b. Teaching scientific methods	A	B	C	D	[4]	(NEW)
c. Preparing students for further study in science	A	B	C	D	[4]	(NEW)
d. Developing inquiry skills	A	B	C	D	[4]	(NEW)
e. Developing problem-solving (design) skills	A	B	C	D	[4]	(NEW)
f. Developing skills in lab techniques	A	B	C	D	[4]	(NEW)
g. Increasing awareness of the importance of science in daily life	A	B	C	D	[4]	(NEW)
h. Developing scientific writing skills	A	B	C	D	[4]	(NEW)

4. When teaching science to your fourth-grade class, how much time do you spend on each of the following areas? Fill in **one** oval on each line. (NEW) [4]

	None	Little	Some	A lot	[Same at:]	
a. Life science	A	B	C	D	[4]	(NEW)
b. Earth and space science	A	B	C	D	[4]	(NEW)
c. Physical science	A	B	C	D	[4]	(NEW)
d. Engineering and technology	A	B	C	D	[4]	(NEW)

5. In your fourth-grade class, how often do your students do each of the following? Fill in **one** oval on each line. (NEW) [4]

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day	[Same at:]	
a. Read a science textbook	A	B	C	D	[4]	(NEW)
b. Read a book or magazine about science or technology	A	B	C	D	[4]	(NEW)
c. Watch a movie, video or DVD about science	A	B	C	D	[4]	(NEW)
d. Watch you do a science project or activity	A	B	C	D	[4]	(NEW)
e. Take a science test or quiz	A	B	C	D	[4]	(NEW)

6. In your fourth-grade class, how often do your students do each of the following? Fill in **one** oval on each line. (NEW) [4]

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day	[Same at:]	
a. Identify questions that can be addressed through scientific investigations	A	B	C	D	[4]	(NEW)
b. Discuss the kinds of problems that engineers can solve	A	B	C	D	[4]	(NEW)
c. Work with other students on a science project or activity	A	B	C	D	[4]	(NEW)
d. Talk about the results of their science project or activity	A	B	C	D	[4]	(NEW)
e. Figure out different ways to solve a science problem	A	B	C	D	[4]	(NEW)
f. Present what they have learned about science	A	B	C	D	[4]	(NEW)

7. Do you use an online textbook for fourth-grade science instruction? (NEW)

   A Yes, it is our primary instructional resource.

   B Yes, we use it to supplement other instructional resources.

   C No

8. In your fourth-grade class, how often do your students use a **computer or other technological resources** to do each of the following? Fill in **one** oval on each line. (NEW) [4]

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day	[Same at:]	
a. Conduct a search for science information	A	B	C	D	[4]	(NEW)
b. Simulate a physical or biological process or see how something works (for example, how planets orbit the sun, how gas expands)	A	B	C	D	[4]	(NEW)
c. Make a chart or graph that shows results of science projects	A	B	C	D	[4]	(NEW)

9. How well does your school system provide you with the following instructional materials and other resources you need to teach science to your fourth-grade class? Fill in **one** oval on each line. (NEW) [4]

	I do not have this resource.	I have some of the resources I need.	I have most of the resources I need.	I have all of the resources I need.	[Same at:]	
a. Science textbooks	A	B	C	D	[4]	(NEW)
b. Science magazines and books	A	B	C	D	[4]	(NEW)
c. Supplies for demonstrations	A	B	C	D	[4]	(NEW)
d. Supplies for science labs	A	B	C	D	[4]	(NEW)
e. Space to conduct science labs	A	B	C	D	[4]	(NEW)
f. Computers for students' use in class	A	B	C	D	[4]	(NEW)
g. Computer labs	A	B	C	D	[4]	(NEW)
h. Computers for teachers' use	A	B	C	D	[4]	(NEW)
i. Computerized science labs for classroom use	A	B	C	D	[4]	(NEW)
j. Audiovisual materials	A	B	C	D	[4]	(NEW)
k. Science kits	A	B	C	D	[4]	(NEW)

10. Are students assigned to this class by ability? (HE002412) [4/8]

    A Yes

    B No

11. Do you create groups within this class for science instruction on the basis of ability? (NEW) [4]

    A Yes

    B No

12. When you teach science to your fourth-grade class, do you do any of the following? Fill in **one** oval on each line. (NEW) [4]

	Yes	No	[Same at:]	
a. I set different achievement standards for some students.	A	B	[4]	(NEW)
b. I supplement the regular course curriculum with additional material for some students.	A	B	[4]	(NEW)
c. I have some students engage in different classroom activities.	A	B	[4]	(NEW)
d. I use a different set of methods in teaching some students.	A	B	[4]	(NEW)
e. I pace my teaching differently for some students.	A	B	[4]	(NEW)

13. Do you meet with students one-on-one to review their work and evaluate their progress in science? (NEW) [4]

A Yes

B No