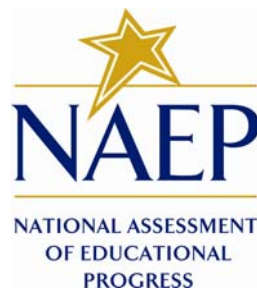


NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

Wave 1 Submittal for 2014 **VOLUME II** ***SURVEY QUESTIONS***

Part 1b **Teacher Grade 4**



Part 1b contains Teacher Grade 4:

Background, Education, Training (BET) — Science
Classroom Organization and Instruction (COI) — Science

The amount of time estimated to complete these forms: 20 minutes

TEACHER QUESTIONNAIRES

OMB Information on Teacher Questionnaire Cover Page

Paperwork Burden Statement

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless such collection displays a valid OMB control number. The valid OMB control number for this information collection is **1850-0790**. The time required to complete this information collection is estimated to average 20 minutes including the time to review instructions, search existing data resources, gather the data needed, and complete and review the information collection. **If you have any comments concerning the accuracy of the time estimate(s) or suggestions for improving this form, please write to: U.S. Department of Education, Washington, D.C. 20202-4537. If you have comments or concerns regarding the status of your individual submission of this form, write directly to: NAEP/NCES, U.S. Department of Education, 400 Maryland Avenue, S.W., Washington, DC 20202.**

A project of the National Center for Education Statistics (NCES), Institute of Education Sciences, U.S. Department of Education.

The information you provide will be used for statistical purposes only. In accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 and other applicable Federal laws, your responses will be kept confidential and will not be disclosed in identifiable form to anyone other than employees or agents. By law, every NCES employee as well as every agent, such as contractors and NAEP coordinators, has taken an oath and is subject to a jail term of up to 5 years, a fine of up to \$250,000, or both if he or she willfully discloses ANY identifiable information about you.

OMB No. 1850-0790 APPROVAL EXPIRES 03/31/2016



Science Questionnaire – Grade 4

Part I: Background, Education, and Training

VB331330

1. Are you Hispanic or Latino? Fill in **one or more ovals**.

- Ⓐ No, I am not Hispanic or Latino.
- Ⓑ Yes, I am Mexican, Mexican American, or Chicano.
- Ⓒ Yes, I am Puerto Rican or Puerto Rican American.
- Ⓓ Yes, I am Cuban or Cuban American.
- Ⓔ Yes, I am from some other Hispanic or Latino background.

VB331331

2. Which of the following best describes you? Fill in **one or more ovals**.

- Ⓐ White
- Ⓑ Black or African American
- Ⓒ Asian
- Ⓓ American Indian or Alaska Native
- Ⓔ Native Hawaiian or other Pacific Islander

VE577729

3. Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?

- Ⓐ Less than 1 year
- Ⓑ 1–2 years
- Ⓒ 3–5 years
- Ⓓ 6–10 years
- Ⓔ 11–20 years
- Ⓕ 21 or more years

VE577841

4. Have you been awarded tenure by the school where you currently teach?

- Ⓐ Yes
- Ⓑ No
- Ⓒ My school does not award tenure.

VF096239

5. Do you hold a regular or standard certificate that is valid in the state in which you are currently teaching?

- Ⓐ Yes, I hold a permanent certificate.
- Ⓑ Yes, I hold a temporary certificate. (This type of certificate may require additional coursework, student teaching, etc.)
- Ⓒ No, but I am currently working toward certification.
- Ⓓ No, and I am not planning to obtain certification.

6. Did you enter teaching through an alternative route to certification program?

(An alternative route to certification program is a program that was designed to expedite the transition of nonteachers to a teaching career, for example, a state, district, or university alternative route to certification program.)

- (A) Yes
- (B) No

7. 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.)

- (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

8. What is the highest academic degree you hold?

- (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.)

VB333658

9. 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.

	Yes, a major	Yes, a minor or special emphasis	No	
a. Biology or other life science	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB595990
b. Physics, chemistry, or other physical science	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB595991
c. Earth or space science	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB595992
d. Other science-related subject	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB556071
e. Mathematics or mathematics education	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB595993
f. Science education	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB556070
g. Engineering or engineering education	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VC304764
h. Education (including elementary or early childhood)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB482660
i. Special education (including students with disabilities)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VE113515
j. English language learning	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> B	VE113516

VE741708

10. Since completing your undergraduate degree, have you taken any graduate courses?

- A Yes → Go to Question 11.
- B No → Skip to Question 12.

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.

	Yes, a major	Yes, a minor or special emphasis	No	
a. Biology or other life science	Ⓐ	Ⓑ	Ⓒ	VB595994
b. Physics, chemistry, or other physical science	Ⓐ	Ⓑ	Ⓒ	VB595995
c. Earth or space science	Ⓐ	Ⓑ	Ⓒ	VB595996
d. Other science-related subject	Ⓐ	Ⓑ	Ⓒ	VB566073
e. Mathematics or mathematics education	Ⓐ	Ⓑ	Ⓒ	VB595997
f. Science education	Ⓐ	Ⓑ	Ⓒ	VB556072
g. Engineering or engineering education	Ⓐ	Ⓑ	Ⓒ	VC304761
h. Education (including elementary or early childhood)	Ⓐ	Ⓑ	Ⓒ	VB473840
i. Special education (including students with disabilities)	Ⓐ	Ⓑ	Ⓒ	VE113560
j. English language learning	Ⓐ	Ⓑ	Ⓒ	VE113562

12. 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.

	Not at all	Small extent	Moderate extent	Large extent	
a. How students learn science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC304728
b. Scientific inquiry and/or technological design	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC304729
c. Content standards in science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC304730
d. Curricular materials available in science (units, texts)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC304731
e. Instructional methods for teaching science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC304732
f. Instructional methods for teaching technological design	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC304733
g. Effective use of laboratory activities in science instruction	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC304734
h. Effective use of information and communication technology (ICT) in science instruction	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC304736
i. Methods for assessing students in science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC304738
j. Preparation of students for district and state assessments	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC304739
k. Strategies for teaching science to students from diverse backgrounds (including English language learners)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC304740

13. During the last **two years**, did you participate in or lead any of the following professional development activities **related to the teaching of science**? Fill in **one** oval on each line.

	Yes, I have participated.	Yes, I have led.	No	
a. College course taken after your first certification	Ⓐ	Ⓑ	Ⓒ	VC323264
b. Workshop or training session	Ⓐ	Ⓑ	Ⓒ	VC323266
c. Conference or professional association meeting	Ⓐ	Ⓑ	Ⓒ	VC323269
d. Observational visit to another school	Ⓐ	Ⓑ	Ⓒ	VC323272
e. Mentoring and/or peer observation and coaching as part of a formal arrangement	Ⓐ	Ⓑ	Ⓒ	VC323273
f. Committee or task force focusing on curriculum, instruction, or student assessment	Ⓐ	Ⓑ	Ⓒ	VC323277
g. Regularly scheduled discussion or study group	Ⓐ	Ⓑ	Ⓒ	VC323280
h. Teacher collaborative or network (such as one organized by an outside agency or over the Internet)	Ⓐ	Ⓑ	Ⓒ	VC323281
i. Individual or collaborative research	Ⓐ	Ⓑ	Ⓒ	VC323283
j. Independent reading on a regular basis (for example, educational journals, books, or the Internet)	Ⓐ	Ⓑ	Ⓒ	VC323285
k. Co-teaching/team teaching	Ⓐ	Ⓑ	Ⓒ	VC323286
l. Consultation with a subject specialist	Ⓐ	Ⓑ	Ⓒ	VC323288

VC191232

14. 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.

- | | No, I am
already
proficient. | No, I
have
not. | Yes | |
|--|------------------------------------|-------------------------|-------------------------|----------|
| a. Basic computer training | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | VC191233 |
| b. Software applications | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | VC191234 |
| c. Use of the Internet | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | VC191235 |
| d. Use of other technology—for example,
satellite access, wireless Web,
interactive video, closed-circuit television,
videoconferencing | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | VC191237 |
| e. Integration of computers and other
technology into classroom instruction | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | VC191238 |



Part II: 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 choose a single class to use as the basis for answering the questions about classroom organization.

If you do not teach science, you have finished this questionnaire. Thank you for your time.

VB598092

1. Which best describes your role in teaching science to this class? Fill in **one** oval.

- Ⓐ I do not teach science to this class.
- Ⓑ I teach all or most subjects, including science.
- Ⓒ The only subject I teach is science.
- Ⓓ We team teach, and I have primary responsibility for teaching science.

VF017603

2. How many students are in this class?

- Ⓐ 15 or fewer
- Ⓑ 16–18
- Ⓒ 19–20
- Ⓓ 21–25
- Ⓔ 26–30
- Ⓕ 31–35
- Ⓖ 36 or more

VB608603

3. About how much time in total do you spend with this class on science instruction in a typical week?

- 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

HE002412

4. Are students assigned to this class by ability?

- A Yes
- B No

VF633144

5. To what extent do you use each of the following student groupings for science instruction in your classroom? Fill in **one** oval on each line.

	Not at all	Small extent	Moderate extent	Large extent	
a. Groupings based on students' interest in science/science-related topics	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633146
b. Groupings based on students' learning preferences or styles	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633149
c. Groupings based on students' readiness or current achievement level	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633150



VB610542

6. How often do you use each of the following to assess student progress in science? Fill in **one** oval on each line.

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day	
a. Multiple-choice tests	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VB610543
b. Short written responses (e.g., a phrase or sentence)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VB610544
c. Long written responses (e.g., several sentences or paragraphs)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VB610545

VB608618

7. In this class, about how much time do you spend on each of the following areas of science? Fill in **one** oval on each line.

	None	Little	Some	A lot	
a. Life science	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VB608619
b. Earth and space science	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VC759072
c. Physical science	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VB608621
d. Engineering and technology	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VC759073

8. About how often do your science students do each of the following? Fill in **one** oval on each line.

	Never or hardly ever	Once or twice a month	Once or twice a week	Every day or almost every day	
a. Read a science textbook	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767837
b. Read a book or magazine about science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767838
c. Work with other students on a science activity or project	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767839
d. Prepare a written science report	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767841
e. Watch a movie, video, or DVD about science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767843
f. Watch a science teacher do a science activity	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767845
g. Do hands-on activities or investigations in science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767846
h. Talk about the measurements and results from students' hands-on activities	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767849
i. Take a science test or quiz	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767850
j. Identify questions that can be addressed through scientific investigations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767851
k. Discuss the kinds of problems that engineers can solve	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767852
l. Figure out different ways to solve a science problem	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767854
m. Present what they have learned about science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767856

9. 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.

	Not at all	Small extent	Moderate extent	Large extent	
a. Increase students' interest in science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC970917
b. Increase awareness of the importance of science in daily life	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC970928
c. Learn about applications of science to environmental issues	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC970930
d. Teach scientific facts and principles	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC970919
e. Teach scientific methods	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC970920
f. Equip students with the knowledge and skills needed for studying science in upper grade levels	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VF633172
g. Develop systematic observation skills	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC970929
h. Develop inquiry skills	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC970923
i. Develop skills in lab techniques	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC970926
j. Develop problem-solving skills	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VF654319
k. Develop scientific writing skills	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC970931

VF633196

10. To what extent does your school system (including your school and school district) provide the following to you? Fill in **one** oval on each line.

	Not at all	Small extent	Moderate extent	Large extent	
a. Science textbooks (including digital forms, such as online textbooks)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633197
b. Science magazines and books (including digital forms, such as online magazines and books)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633198
c. Supplies or equipment for science demonstrations	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633199
d. Supplies or equipment for science labs	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633200
e. Space to conduct science labs	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633201
f. Computers for students' use in class	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633208
g. Computer labs	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633203
h. Computers for teachers' use	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633204
i. Computerized science labs for classroom use	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633205
j. Audiovisual materials	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633206
k. Science kits	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633207
l. Scientific measurement instruments (e.g., telescopes, microscopes, thermometers, or weighing scales)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633202



11. To what extent do you use each of the following technological resources for fourth-grade science instruction? Fill in **one** oval on each line.

	Not at all	Small extent	Moderate extent	Large extent	
a. Desktop computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC973470
b. Laptop computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC973471
c. Tablet PC (notebook-like computer that allows users to write or draw through the use of a stylus or touch-screen)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC973472
d. Digital projector (device that connects to a computer to display presentations or demonstrate lessons, such as an LCD)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC973473
e. CD-ROM	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC973474
f. Online software	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC973475
g. Digital music device (pocket-sized music player used to listen to or create audio files, such as an MP3 player)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC973476
h. Cable/satellite/closed-circuit television	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC973477

Continued on next page.

	Not at all	Small extent	Moderate extent	Large extent	
i. DVD player and DVDs	(A)	(B)	(C)	(D)	VC973478
j. Digital camera	(A)	(B)	(C)	(D)	VC973479
k. Graphing calculator	(A)	(B)	(C)	(D)	VC973480
l. Handheld device (pocket-sized computing device, such as personal digital assistant or smartphone)	(A)	(B)	(C)	(D)	VC973481
m. Data collection sensors/probes (tool that connects to a handheld device or graphing calculator and detects motion, pH, temperature, light)	(A)	(B)	(C)	(D)	VC973482
n. Online course management system (web-based software used to organize information, assignments, grades, and discussions)	(A)	(B)	(C)	(D)	VC973483
o. Digital whiteboard (computerized display panels that can respond to fingertip command and creates a shared interactive space, akin to traditional chalkboards)	(A)	(B)	(C)	(D)	VC973484



12. Which of the following statements is true about how well your school system provides you with the instructional materials and other resources you need to teach your class?

- Ⓐ I get all the resources I need.
- Ⓑ I get most of the resources I need.
- Ⓒ I get some of the resources I need.
- Ⓓ I don't get any of the resources I need.

13. When you teach science to your fourth-grade class, do you do any of the following? Fill in **one** oval on each line.

	Not at all	Small extent	Moderate extent	Large extent	
a. Use a different set of methods in teaching some students	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	VC767814
b. Supplement the regular course curriculum with additional material for some students	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	VC767820
c. Vary the pace of instruction for some students	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	VF633254
d. Have some students engage in different classroom activities	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	VC767823
e. Set different achievement standards for some students	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	VC767824

14. How often do you meet with students one-on-one to review their work and evaluate their progress in science?

- Ⓐ Never or hardly ever
- Ⓑ A few times a year
- Ⓒ Once or twice a month
- Ⓓ Once or twice a week
- Ⓔ Every day or almost every day

15. How often do you do each of the following with individual students to evaluate their progress in science? Fill in **one** oval on each line.

	Never or hardly ever	A few times a year	Once or twice a month	Once or twice a week	Every day or almost every day	
a. Discuss the student's current level of performance	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC767830
b. Set goals for specific progress the student would like to make	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC767831
c. Discuss progress the student has made toward goals previously set	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC767832
d. Determine how to adjust your teaching strategies to meet the student's current learning needs and to reflect the student's future goals	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC767834

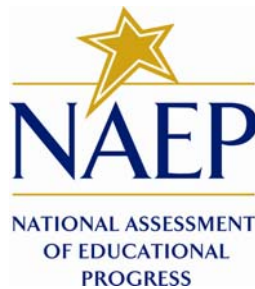
16. In addition to your regular classroom instruction, how often do you use the following to engage fourth-grade students in learning science? Fill in **one** oval on each line.

	Not at all	1–2 times per year	3–4 times per year	More than 5 times per year	
a. Science fairs	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF654359
b. Science competitions	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF654360
c. Science-related field trips (including museums, zoos, aquariums, science centers, and other similar sites)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF654361

NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

Wave 1 Submittal for 2014 **VOLUME II** ***SURVEY QUESTIONS***

Part 2b **Teacher Grade 8**



Part 2b contains Teacher Grade 8:

Background, Education, Training (BET) –Social Studies
Classroom Organization and Instruction (COI) — Social Studies (Civics, Geography, U.S. History)

Background, Education, Training (BET) –Science
Classroom Organization and Instruction (COI) — Science

The amount of time estimated to complete these forms: 20 minutes (30 minutes if both social studies and science are completed).

TEACHER QUESTIONNAIRES

OMB Information on Teacher Questionnaire Cover Page

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A project of the National Center for Education Statistics (NCES), Institute of Education Sciences, U.S. Department of Education.

The information you provide will be used for statistical purposes only. In accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 and other applicable Federal laws, your responses will be kept confidential and will not be disclosed in identifiable form to anyone other than employees or agents. By law, every NCES employee as well as every agent, such as contractors and NAEP coordinators, has taken an oath and is subject to a jail term of up to 5 years, a fine of up to \$250,000, or both if he or she willfully discloses ANY identifiable information about you.

OMB No. 1850-0790 APPROVAL EXPIRES 03/31/2016

¹ 30 minutes if teacher completes both social studies and science.

Teacher Grade 8 Social Studies

Teacher Grade 8 Social Studies Questions

*The amount of time estimated to complete this form is 20 minutes
(30 minutes if both social studies and science are completed).*



Civics, Geography, and U.S. History – Grade 8

Part I: Background, Education, and Training

VB331330

1. Are you Hispanic or Latino? Fill in **one or more ovals**.

- Ⓐ No, I am not Hispanic or Latino.
- Ⓑ Yes, I am Mexican, Mexican American, or Chicano.
- Ⓒ Yes, I am Puerto Rican or Puerto Rican American.
- Ⓓ Yes, I am Cuban or Cuban American.
- Ⓔ Yes, I am from some other Hispanic or Latino background.

VB331331

2. Which of the following best describes you? Fill in **one or more ovals**.

- Ⓐ White
- Ⓑ Black or African American
- Ⓒ Asian
- Ⓓ American Indian or Alaska Native
- Ⓔ Native Hawaiian or other Pacific Islander

VE577729

3. Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?

- A Less than 1 year
- B 1–2 years
- C 3–5 years
- D 6–10 years
- E 11–20 years
- F 21 or more years

VF883691

4. Excluding student teaching, how many years have you taught civics, geography, history, or social studies in grades 6 through 12, counting this year?

- A Less than 1 year
- B 1–2 years
- C 3–5 years
- D 6–10 years
- E 11–20 years
- F 21 or more years

VE577841

5. Have you been awarded tenure by the school where you currently teach?

- A Yes
- B No
- C My school does not award tenure.



6. Do you hold a regular or standard certificate that is valid in the state in which you are currently teaching?

- Ⓐ Yes, I hold a permanent certificate.
- Ⓑ Yes, I hold a temporary certificate. (This type of certificate may require additional coursework, student teaching, etc.)
- Ⓒ No, but I am currently working toward certification.
- Ⓓ No, and I am not planning to obtain certification.

7. Did you enter teaching through an alternative route to certification program?

(An alternative route to certification program is a program that was designed to expedite the transition of nonteachers to a teaching career, for example, a state, district, or university alternative route to certification program.)

- Ⓐ Yes
- Ⓑ 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.)

- Ⓐ Yes, I am fully certified by the National Board for Professional Teaching Standards.
- Ⓑ I am working towards my National Board certification.
- Ⓒ No

9. What is the highest academic degree you hold?

- Ⓐ High school diploma
- Ⓑ Associate's degree/vocational certification
- Ⓒ Bachelor's degree
- Ⓓ Master's degree
- Ⓔ Education specialist's or professional diploma based on at least one year's work past master's degree
- Ⓕ Doctorate
- Ⓖ 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.

	Yes, a major	Yes, a minor or special emphasis	No	
a. History or history education	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	VB333659
b. Geography or geography education	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	VB333660
c. Political science	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	VB607676
d. General social science or social studies education	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	VB334021
e. Other social science (for example, economics, sociology, psychology, anthropology)	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	VB610604
f. Education (including secondary education)	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	VB482938
g. Special education (including students with disabilities)	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	VE113515
h. English language learning	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	VE113516

11. Since completing your undergraduate degree, have you taken any graduate courses?

- A Yes → *Go to Question 12.*
- B No → *Skip to Question 13.*

12. 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.

	Yes, a major	Yes, a minor or special emphasis	No	
a. History or history education	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB345620
b. Geography or geography education	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB374402
c. Political science	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB607677
d. General social science or social studies education	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB374403
e. Other social science (for example, economics, sociology, psychology, anthropology)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB610605
f. Education (including secondary education)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB482939
g. Special education (including students with disabilities)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VE113560
h. English language learning	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VE113562

VE041048

13. During the last **two years**, did you participate in or lead any of the following professional development activities **related to the teaching of civics, geography, history, or social studies**? Fill in **one** oval on each line.

- | | Yes | No | |
|--|-------------------------|-------------------------|----------|
| a. College course taken after your first certification | <input type="radio"/> A | <input type="radio"/> B | VE041049 |
| b. Workshop or training session | <input type="radio"/> A | <input type="radio"/> B | VE041051 |
| c. Conference or professional association meeting | <input type="radio"/> A | <input type="radio"/> B | VE041053 |
| d. Observational visit to another school | <input type="radio"/> A | <input type="radio"/> B | VE041056 |
| e. Mentoring and/or peer observation and coaching as part of a formal arrangement | <input type="radio"/> A | <input type="radio"/> B | VE041059 |
| f. Committee or task force focusing on curriculum, instruction, or student assessment | <input type="radio"/> A | <input type="radio"/> B | VE041060 |
| g. Regularly scheduled discussion or study group | <input type="radio"/> A | <input type="radio"/> B | VE041063 |
| h. Teacher collaborative or network, such as one organized by an outside agency or over the Internet | <input type="radio"/> A | <input type="radio"/> B | VE041065 |
| i. Individual or collaborative research | <input type="radio"/> A | <input type="radio"/> B | VE041068 |
| j. Independent reading on a regular basis—for example, educational journals, books, or the Internet | <input type="radio"/> A | <input type="radio"/> B | VE041069 |
| k. Co-teaching/team teaching | <input type="radio"/> A | <input type="radio"/> B | VE041076 |
| l. Consultation with subject specialist | <input type="radio"/> A | <input type="radio"/> B | VE041078 |





14. 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.

	No, I am already proficient.	No, I have not.	Yes	
a. Basic computer training	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VC191233
b. Software applications	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VC191234
c. Use of the Internet	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VC191235
d. Use of other technology—for example, satellite access, wireless Web, interactive video, closed-circuit television, videoconferencing	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VC191237
e. Integration of computers and other technology into classroom instruction	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VC191238

Part II: Classroom Organization and Instruction – Social Studies (Civics, Geography, and U.S. History)

The following questions ask about the organization of your classroom for social studies instruction. If you teach more than one eighth-grade social studies class, please choose a single class to use as the basis for answering the questions about classroom organization.

If you do not teach social studies, you have finished this questionnaire. Thank you for your time.

1. Which best describes your role in teaching social studies to this class? Fill in **one** oval. VE217248

- Ⓐ I teach all or most subjects, including social studies.
- Ⓑ The only subject I teach is social studies.
- Ⓒ We team teach, and I have primary responsibility for teaching social studies.

2. Which best describes how social studies instruction is organized? VB336261

- Ⓐ Social studies is taught primarily as a discrete subject with little or no integration with instruction in other subjects.
- Ⓑ Some social studies instruction is integrated with other subjects, and some social studies instruction is presented as a discrete subject.
- Ⓒ Social studies lessons are primarily integrated with instruction in other subjects.

3. About how much time in total do you spend with your class on social studies instruction in a typical week? VB608032

- Ⓐ Less than 1 hour
- Ⓑ 1–2.9 hours
- Ⓒ 3–4.9 hours
- Ⓓ 5–6.9 hours
- Ⓔ 7 hours or more

4. How many students are in this class?

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

5. What is the primary basis on which you create instructional groups for social studies in this class?

- Ⓐ I don't create groups for social studies in this class.
- Ⓑ Achievement
- Ⓒ Interest
- Ⓓ Diversity
- Ⓔ Other

6. During what percentage of social studies instruction time in this class is your primary focus on each of the following subjects? Fill in **one** oval on each line.

	None	1–10%	11–40%	41–60%	61–90%	More than 90%	
a. U.S. history	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	<input type="radio"/> Ⓕ	VB608034
b. Geography	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	<input type="radio"/> Ⓕ	VE217925
c. Civics/government	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	<input type="radio"/> Ⓕ	VB608035

7. To what extent do you use state or local standards for history, civics, geography, or social studies courses to plan your instruction?

- Ⓐ Not at all
- Ⓑ Small extent
- Ⓒ Moderate extent
- Ⓓ Large extent
- Ⓔ We have no state or local standards that apply to teaching history, civics, geography, or social studies.

8. How often do you use the following resources to teach social studies in this class? Fill in **one** oval on each line.

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day	
a. A social studies textbook	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608037
b. Books, newspapers, magazines, or other periodicals	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608038
c. Primary documents	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608039
d. Quantitative data (such as that on maps, charts, or graphs)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608040
e. Computer software	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608041
f. Films, videos, or filmstrips	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608062
g. Materials from other subject areas	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608063
h. Online textbooks	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE217165

9. How often do you do the following as part of social studies instruction with this class?
Fill in **one** oval on each line.

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day	
a. Ask students to complete a worksheet	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608065
b. Give a lecture to the class about social studies	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608066
c. Have students participate in debates or panel discussions	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608067
d. Have students participate in mock trials, role-playing, or dramatization	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608068
e. Have students write letters to state an opinion or solve a community problem	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608069
f. Have visitors from your community meet with the class to discuss important events and ideas	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608070
g. Have students participate in community volunteer projects or services	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608072
h. Have students access information through the Internet for use in the classroom	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608073
i. Discuss current events	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608074
j. Use student government	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608075
k. Give students social studies homework	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608076

10. How often do you use each of the following to assess student progress in social studies?
Fill in **one** oval on each line.

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day	
a. Tests with multiple-choice, true/false, or matching type questions	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE229588
b. Tests with fill-in-the-blank questions	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE229590
c. Paragraph-length written responses about what students have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE229592
d. Extended essays/papers on assigned topics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE229594
e. Individual projects	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE229596
f. Individual presentations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE229597
g. Group projects	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE229598
h. Group presentations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE229599

11. About how many weeks during the school year do you spend covering the following periods in U.S. history? Fill in **one** oval on each line.

	Not covered in curriculum	One to two weeks	Three to five weeks	Six or more weeks	
a. The period before 1815: beginnings through the Revolution (e.g., colonization, settlement, revolution)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB595267
b. The period between 1815 and 1865: the new nation through the Civil War (e.g., expansion, reform, crisis of the Union)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB595268
c. The period between 1865 and 1945: the development of modern America (e.g., Reconstruction, industrial growth, United States' role in world affairs, the Great Depression, the First and Second World Wars, immigration)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB595269
d. The period between 1945 and the present: contemporary America (e.g., civil rights movement, women's rights movement, Korean and Vietnam wars, environmental movement)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB595270

12. To what extent have you emphasized each of the following topics in your U.S. history class? Fill in **one** oval on each line.

	Not applicable	Not at all	Small extent	Moderate extent	Large extent	
a. Change and continuity in U.S. democracy	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC787819
b. Gathering and interactions of people from various cultures	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC787821
c. Technological changes	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC787823
d. Economic changes	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC787824
e. Changing role of the U.S. in the world	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC787825

13. To what extent have you emphasized each of the following topics in your civics or government class? Fill in **one** oval on each line.

	Not applicable	Not at all	Small extent	Moderate extent	Large extent	
a. Politics and government	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC787828
b. Foundations of the U.S. political system	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC787829
c. The U.S. Constitution	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC787831
d. World affairs	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC787832
e. Roles of citizens in U.S. democracy	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC787833

14. Do you give instruction on geography to your students?

- Ⓐ Yes → Go to Question 15.
- Ⓑ No → Skip to Question 16.

15. How often do you teach the following skills and topics as part of geography instruction with this class? Fill in **one** oval on each line.

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day	
a. Using maps and globes	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE109644
b. Natural resources (e.g., oil, forests, and water)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE109662
c. Other countries and cultures	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE109666
d. Environmental issues (e.g., pollution and recycling)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE109669
e. Space and place (i.e., basic concepts of physical and human geography)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE109673
f. Spatial dynamics and connections (i.e., variation among regions and how people interact across space via communication, transportation, trade)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE109676

16. When students in this class work on social studies, to what extent do they use computers to do the following? Fill in **one** oval on each line.

	Not at all	Small extent	Moderate extent	Large extent	
a. Locate and retrieve social studies information through the Internet	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB379261
b. Look up social studies information in electronic reference works (for example, atlases, almanacs, encyclopedias)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE112555
c. Use exploration or simulation software to “experience” history or geography	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB379282
d. Write social studies reports using word processing	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB379283
e. Create social studies presentations or projects	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VF816145
f. Organize social studies information using spreadsheets or databases	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB379285

17. To what extent do you use a computer when instructing students in each of the following subjects? Fill in **one** oval on each line.

	Not applicable	Not at all	Small extent	Moderate extent	Large extent	
a. U.S. history	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE102452
b. Civics or government	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE102453
c. Geography	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE102454

18. To what extent are computers available for students to use in each of the following classes in school (e.g., a classroom or a computer lab)? Fill in **one** oval on each line.

	Not applicable	Not at all	Small extent	Moderate extent	Large extent	
a. U.S. history	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VE102442
b. Civics or government	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VE102444
c. Geography	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VE102446

Teacher Grade 8 Science

Teacher Grade 8 Science Questions

*The amount of time estimated to complete this form is 20 minutes
(30 minutes if both science and social studies are completed).*



Science Questionnaire – Grade 8

Part I: Background, Education, and Training

VB331330

1. Are you Hispanic or Latino? Fill in **one or more ovals**.

- Ⓐ No, I am not Hispanic or Latino.
- Ⓑ Yes, I am Mexican, Mexican American, or Chicano.
- Ⓒ Yes, I am Puerto Rican or Puerto Rican American.
- Ⓓ Yes, I am Cuban or Cuban American.
- Ⓔ Yes, I am from some other Hispanic or Latino background.

VB331331

2. Which of the following best describes you? Fill in **one or more ovals**.

- Ⓐ White
- Ⓑ Black or African American
- Ⓒ Asian
- Ⓓ American Indian or Alaska Native
- Ⓔ Native Hawaiian or other Pacific Islander

VE577729

3. Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?

- A Less than 1 year
- B 1–2 years
- C 3–5 years
- D 6–10 years
- E 11–20 years
- F 21 or more years

VF883718

4. Excluding student teaching, how many years have you taught science in grades 6 through 12, counting this year?

- A Less than 1 year
- B 1–2 years
- C 3–5 years
- D 6–10 years
- E 11–20 years
- F 21 or more years

VE577841

5. Have you been awarded tenure by the school where you currently teach?

- A Yes
- B No
- C My school does not award tenure.



6. Do you hold a regular or standard certificate that is valid in the state in which you are currently teaching?

- Ⓐ Yes, I hold a permanent certificate.
- Ⓑ Yes, I hold a temporary certificate. (This type of certificate may require additional coursework, student teaching, etc.)
- Ⓒ No, but I am currently working toward certification.
- Ⓓ No, and I am not planning to obtain certification.

7. Did you enter teaching through an alternative route to certification program?

(An alternative route to certification program is a program that was designed to expedite the transition of nonteachers to a teaching career, for example, a state, district, or university alternative route to certification program.)

- Ⓐ Yes
- Ⓑ 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.)

- Ⓐ Yes, I am fully certified by the National Board for Professional Teaching Standards.
- Ⓑ I am working towards my National Board certification.
- Ⓒ No

9. What is the highest academic degree you hold?

- Ⓐ High school diploma
- Ⓑ Associate's degree/vocational certification
- Ⓒ Bachelor's degree
- Ⓓ Master's degree
- Ⓔ Education specialist's or professional diploma based on at least one year's work past master's degree
- Ⓕ Doctorate
- Ⓖ 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.

	Yes, a major	Yes, a minor or special emphasis	No	
a. Biology or other life science	Ⓐ	Ⓑ	Ⓒ	VB595990
b. Physics, chemistry, or other physical science	Ⓐ	Ⓑ	Ⓒ	VB595991
c. Earth or space science	Ⓐ	Ⓑ	Ⓒ	VB595992
d. Mathematics or mathematics education	Ⓐ	Ⓑ	Ⓒ	VB595993
e. Science education	Ⓐ	Ⓑ	Ⓒ	VB556070
f. Engineering or engineering education	Ⓐ	Ⓑ	Ⓒ	VC304764
g. Elementary or secondary education	Ⓐ	Ⓑ	Ⓒ	VB595189
h. Special education (including students with disabilities)	Ⓐ	Ⓑ	Ⓒ	VE113515
i. English language learning	Ⓐ	Ⓑ	Ⓒ	VE113516

11. Since completing your undergraduate degree, have you taken any graduate courses?

- A Yes → *Go to Question 12.*
- B No → *Skip to Question 13.*

12. 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.

	Yes, a major	Yes, a minor or special emphasis	No	
a. Biology or other life science	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB595994
b. Physics, chemistry, or other physical science	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB595995
c. Earth or space science	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB595996
d. Mathematics or mathematics education	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB595997
e. Science education	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB556072
f. Engineering or engineering education	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VC304761
g. Elementary or secondary education	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB595190
h. Special education (including students with disabilities)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VE113560
i. English language learning	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VE113562

13. 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.

	Not at all	Small extent	Moderate extent	Large extent	
a. How students learn science	(A)	(B)	(C)	(D)	VC304728
b. Scientific inquiry and/or technological design	(A)	(B)	(C)	(D)	VC304729
c. Content standards in science	(A)	(B)	(C)	(D)	VC304730
d. Curricular materials available in science (units, texts)	(A)	(B)	(C)	(D)	VC304731
e. Instructional methods for teaching science	(A)	(B)	(C)	(D)	VC304732
f. Instructional methods for teaching technological design	(A)	(B)	(C)	(D)	VC304733
g. Effective use of laboratory activities in science instruction	(A)	(B)	(C)	(D)	VC304734
h. Effective use of information and communication technology (ICT) in science instruction	(A)	(B)	(C)	(D)	VC304736
i. Methods for assessing students in science	(A)	(B)	(C)	(D)	VC304738
j. Preparation of students for district and state assessments	(A)	(B)	(C)	(D)	VC304739
k. Strategies for teaching science to students from diverse backgrounds (including English language learners)	(A)	(B)	(C)	(D)	VC304740

14. During the last **two years**, did you participate in or lead any of the following professional development activities **related to the teaching of science**? Fill in **one** oval on each line.

	Yes, I have participated.	Yes, I have led.	No	
a. College course taken after your first certification	Ⓐ	Ⓑ	Ⓒ	VC323264
b. Workshop or training session	Ⓐ	Ⓑ	Ⓒ	VC323266
c. Conference or professional association meeting	Ⓐ	Ⓑ	Ⓒ	VC323269
d. Observational visit to another school	Ⓐ	Ⓑ	Ⓒ	VC323272
e. Mentoring and/or peer observation and coaching as part of a formal arrangement	Ⓐ	Ⓑ	Ⓒ	VC323273
f. Committee or task force focusing on curriculum, instruction, or student assessment	Ⓐ	Ⓑ	Ⓒ	VC323277
g. Regularly scheduled discussion or study group	Ⓐ	Ⓑ	Ⓒ	VC323280
h. Teacher collaborative or network (such as one organized by an outside agency or over the Internet)	Ⓐ	Ⓑ	Ⓒ	VC323281
i. Individual or collaborative research	Ⓐ	Ⓑ	Ⓒ	VC323283
j. Independent reading on a regular basis (for example, educational journals, books, or the Internet)	Ⓐ	Ⓑ	Ⓒ	VC323285
k. Co-teaching/team teaching	Ⓐ	Ⓑ	Ⓒ	VC323286
l. Consultation with a subject specialist	Ⓐ	Ⓑ	Ⓒ	VC323288

VC191232

15. 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.

- | | No, I am
already
proficient. | No, I
have
not. | Yes | |
|--|------------------------------------|-------------------------|-------------------------|----------|
| a. Basic computer training | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | VC191233 |
| b. Software applications | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | VC191234 |
| c. Use of the Internet | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | VC191235 |
| d. Use of other technology—for example,
satellite access, wireless Web,
interactive video, closed-circuit television,
videoconferencing | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | VC191237 |
| e. Integration of computers and other
technology into classroom instruction | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | VC191238 |





Part II: Classroom Organization and Instruction – Science

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

If you do not teach science, you have finished this questionnaire. Thank you for your time.

VB598092

1. Which best describes your role in teaching science to this class? Fill in **one** oval.

- Ⓐ I do not teach science to this class.
- Ⓑ I teach all or most subjects, including science.
- Ⓒ The only subject I teach is science.
- Ⓓ We team teach, and I have primary responsibility for teaching science.

VF017603

2. How many students are in this class?

- Ⓐ 15 or fewer
- Ⓑ 16–18
- Ⓒ 19–20
- Ⓓ 21–25
- Ⓔ 26–30
- Ⓕ 31–35
- Ⓖ 36 or more

VB598093

3. About how much time in total do you spend with this class on science instruction in a typical week?

- A Less than 1 hour
- B 1–2.9 hours
- C 3–4.9 hours
- D 5–6.9 hours
- E 7 hours or more

HE002412

4. Are students assigned to this class by ability?

- A Yes
- B No

VF633144

5. To what extent do you use each of the following student groupings for science instruction in your classroom? Fill in **one** oval on each line.

	Not at all	Small extent	Moderate extent	Large extent	
a. Groupings based on students' interest in science/science-related topics	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633146
b. Groupings based on students' learning preferences or styles	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633149
c. Groupings based on students' readiness or current achievement level	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VF633150





VB610542

6. How often do you use each of the following to assess student progress in science? Fill in **one** oval on each line.

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day	
a. Multiple-choice tests	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VB610543
b. Short written responses (e.g., a phrase or sentence)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VB610544
c. Long written responses (e.g., several sentences or paragraphs)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VB610545

VB608618

7. In this class, about how much time do you spend on each of the following areas of science? Fill in **one** oval on each line.

	None	Little	Some	A lot	
a. Life science	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VB608619
b. Earth and space science	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VC759072
c. Physical science	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VB608621
d. Engineering and technology	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VC759073

8. About how often do your science students do each of the following? Fill in **one** oval on each line.

	Never or hardly ever	Once or twice a month	Once or twice a week	Every day or almost every day	
a. Read a science textbook	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767837
b. Read a book or magazine about science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767838
c. Work with other students on a science activity or project	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767839
d. Prepare a written science report	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767841
e. Watch a movie, video, or DVD about science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767843
f. Watch a science teacher do a science activity	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767845
g. Do hands-on activities or investigations in science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767846
h. Talk about the measurements and results from students' hands-on activities	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767849
i. Take a science test or quiz	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767850
j. Identify questions that can be addressed through scientific investigations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767851
k. Discuss the kinds of problems that engineers can solve	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767852
l. Figure out different ways to solve a science problem	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767854
m. Present what they have learned about science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC767856

9. To what extent do you emphasize each of the following objectives in teaching science to your eighth-grade class? Fill in **one** oval on each line.

	Not at all	Small extent	Moderate extent	Large extent	
a. Increase students' interest in science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976015
b. Increase awareness of the importance of science in daily life	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976023
c. Learn about applications of science to environmental issues	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976026
d. Teach scientific facts and principles	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976017
e. Teach scientific methods	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976018
f. Equip students with the knowledge and skills needed for studying science in upper grade levels	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VF633272
g. Develop systematic observation skills	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976025
h. Develop inquiry skills	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976020
i. Develop skills in lab techniques	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976022
j. Develop problem-solving skills	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VF654412
k. Develop scientific writing skills	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976027

VF633196

10. To what extent does your school system (including your school and school district) provide the following to you? Fill in **one** oval on each line.

	Not at all	Small extent	Moderate extent	Large extent	
a. Science textbooks (including digital forms, such as online textbooks)	(A)	(B)	(C)	(D)	VC976015
b. Science magazines and books (including digital forms, such as online magazines and books)	(A)	(B)	(C)	(D)	VC633198
c. Supplies or equipment for science demonstrations	(A)	(B)	(C)	(D)	VC633199
d. Supplies or equipment for science labs	(A)	(B)	(C)	(D)	VF633200
e. Space to conduct science labs	(A)	(B)	(C)	(D)	VF633201
f. Computers for students' use in class	(A)	(B)	(C)	(D)	VF633208
g. Computer labs	(A)	(B)	(C)	(D)	VF633203
h. Computers for teachers' use	(A)	(B)	(C)	(D)	VF633204
i. Computerized science labs for classroom use	(A)	(B)	(C)	(D)	VF633205
j. Audiovisual materials	(A)	(B)	(C)	(D)	VF633206
k. Science kits	(A)	(B)	(C)	(D)	VF633207
l. Scientific measurement instruments (e.g., telescopes, microscopes, thermometers, or weighing scales)	(A)	(B)	(C)	(D)	VF633202

11. To what extent do you use each of the following technological resources for eighth-grade science instruction? Fill in **one** oval on each line.

	Not at all	Small extent	Moderate extent	Large extent	
a. Desktop computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976050
b. Laptop computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976051
c. Tablet PC (notebook-like computer that allows users to write or draw through the use of a stylus or touch-screen)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976053
d. Digital projector (device that connects to a computer to display presentations or demonstrate lessons, such as an LCD)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976054
e. CD-ROM	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976056
f. Online software	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976057
g. Digital music device (pocket-sized music player used to listen to or create audio files, such as an MP3 player)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976059
h. Cable/satellite/closed-circuit television	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976061

Continued on next page.

	Not at all	Small extent	Moderate extent	Large extent	
i. DVD player and DVDs	(A)	(B)	(C)	(D)	VC976063
j. Digital camera	(A)	(B)	(C)	(D)	VC976067
k. Graphing calculator	(A)	(B)	(C)	(D)	VC976068
l. Handheld device (pocket-sized computing device, such as personal digital assistant or smartphone)	(A)	(B)	(C)	(D)	VC976071
m. Data collection sensors/probes (tool that connects to a handheld device or graphing calculator and detects motion, pH, temperature, light)	(A)	(B)	(C)	(D)	VC976072
n. Online course management system (web-based software used to organize information, assignments, grades, and discussions)	(A)	(B)	(C)	(D)	VC976073
o. Digital whiteboard (computerized display panels that can respond to fingertip command and creates a shared interactive space, akin to traditional chalkboards)	(A)	(B)	(C)	(D)	VC976075





VC976076

12. In your eighth-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.

	Never or hardly ever	Once or twice a month	Once or twice a week	Every day or almost every day	
a. Conduct a search for science information	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VC976080
b. Simulate a physical or biological process or see how something works (for example, how planets orbit the sun, how gas expands)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VC976081
c. Make a chart or graph that shows results of science projects	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VC976084

HE001022

13. Which of the following statements is true about how well your school system provides you with the instructional materials and other resources you need to teach your class?

- A I get all the resources I need.
- B I get most of the resources I need.
- C I get some of the resources I need.
- D I don't get any of the resources I need.

VC976085

14. When you teach science to your eighth-grade class, do you do any of the following? Fill in **one** oval on each line.

- | | Not
at all | Small
extent | Moderate
extent | Large
extent | |
|--|-------------------------|-------------------------|----------------------------|-------------------------|----------|
| a. Use a different set of methods in teaching some students | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | VC976086 |
| b. Supplement the regular course curriculum with additional material for some students | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | VC976088 |
| c. Vary the pace of instruction for some students | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | VF640396 |
| d. Have some students engage in different classroom activities | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | VC976092 |
| e. Set different achievement standards for some students | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D | VC976094 |

VC767810

15. How often do you meet with students one-on-one to review their work and evaluate their progress in science?

- A Never or hardly ever
- B A few times a year
- C Once or twice a month
- D Once or twice a week
- E Every day or almost every day



16. How often do you do each of the following with individual students to evaluate their progress in science? Fill in **one** oval on each line.

- | | Never or
hardly
ever | A few
times a
year | Once or
twice a
month | Once or
twice a
week | Every day
or almost
every day | |
|--|----------------------------|--------------------------|-----------------------------|----------------------------|-------------------------------------|----------|
| a. Discuss the student's current level of performance | Ⓐ | Ⓑ | Ⓒ | Ⓓ | Ⓔ | VC767830 |
| b. Set goals for specific progress the student would like to make | Ⓐ | Ⓑ | Ⓒ | Ⓓ | Ⓔ | VC767831 |
| c. Discuss progress the student has made toward goals previously set | Ⓐ | Ⓑ | Ⓒ | Ⓓ | Ⓔ | VC767832 |
| d. Determine how to adjust your teaching strategies to meet the student's current learning needs and to reflect the student's future goals | Ⓐ | Ⓑ | Ⓒ | Ⓓ | Ⓔ | VC767834 |

17. In addition to your regular classroom instruction, how often do you use the following to engage eighth-grade students in learning science? Fill in **one** oval on each line.

- | | Not
at all | 1–2 times
per year | 3–4 times
per year | More than
5 times
per year | |
|---|---------------|-----------------------|-----------------------|----------------------------------|----------|
| a. Science fairs | Ⓐ | Ⓑ | Ⓒ | Ⓓ | VF654432 |
| b. Science competitions | Ⓐ | Ⓑ | Ⓒ | Ⓓ | VF654434 |
| c. Science-related field trips (including museums, zoos, aquariums, science centers, and other similar sites) | Ⓐ | Ⓑ | Ⓒ | Ⓓ | VF654433 |