NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

Wave 2 Submittal for 2015
VOLUME II
SURVEY QUESTIONS

Part 2a
Teacher Grade 4

Part 2a contains Teacher Grade 4 components:

Science — Classroom Organization and Instruction
KaSA (Puerto Rico adapted) Teacher — BET, COI-Math
NIES Questions

The amount of time estimated to complete these forms:
Grade 4 Teacher Questionnaire – 30 minutes
KaSA (Puerto Rico adapted) Teacher – 20 minutes
NIES Teacher Questionnaire – 20 minutes

TEACHER QUESTIONNAIRES

OMB Information on Teacher Questionnaire Cover Page

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

[1] 30 minutes for complete Grade 4 teacher questionnaire; 20 minutes for NIES teacher questionnaire; 20 minutes for KaSA teacher.

Teacher Grade 4
Classroom Organization and Instruction (COI) – Science

Teacher Grade 4 COI-Science Questions

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? Select **one** circle.

Ⓐ 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

VH142009

3. In a typical week, how much time do you spend teaching science to the students in this class? Write in the hours and minutes.

_____ hours and _____ minutes per week

VH142206

4. Are students assigned to this class by achievement level?

Ⓐ Yes

Ⓑ No

VF633144

5. To what extent do you use each of the following student groupings for science instruction in your classroom? Select **one** circle in each row.

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

VB610542

6. How often do you use each of the following to assess student progress in science? Select **one** circle in each row.

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day	
a. Multiple-choice tests	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB610543
b. Short written responses (e.g., a phrase or sentence)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB610544
c. Long written responses (e.g., several sentences or paragraphs)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB610545
d. Performance-based assessments	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH157952
e. Group projects	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH157953

VB608618

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

	None	Little	Some	A lot	
a. Life science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608619
b. Earth and space science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC759072
c. Physical science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608621
d. Engineering and technology	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC759073

VC767836

8. About how often do your science students do each of the following? Select **one** circle in each row.

	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

VC970876

9. To what extent do you emphasize each of the following objectives in teaching science to your fourth-grade class? Select **one** circle in each row.

	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? Select **one** circle in each row.

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

11. To what extent do you use each of the following technological resources for fourth-grade science instruction? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. Desktop computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC973470
b. Laptop computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC973471
c. Tablet computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH157962
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
i. DVD player and DVDs	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC973478
j. Digital camera	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC973479
k. Graphing calculator	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC973480
l. Handheld device (pocket-sized computing device, such as personal digital assistant or smartphone)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC973481
m. Data collection sensors/ probes (tool that connects to a handheld device or graphing calculator and detects motion, pH, temperature, light)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC973482
n. Online course management system (web-based software used to organize information, assignments, grades, and discussions)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC973483
o. Digital whiteboard (computerized display panels that can respond to fingertip command and creates a shared interactive space, akin to traditional chalkboards)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC973484

HE001022

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.

VC767811

13. When you teach science to your fourth-grade class, do you do any of the following? Select **one** circle in each row.

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

VC767810

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

VC767829

15. How often do you do each of the following with individual students to evaluate their progress in science? Select **one** circle in each row.

	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

VH142241

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

	Not at all	1–2 times per year	3 or more times per year	
a. Science fairs	Ⓐ	Ⓑ	Ⓒ	VH142242
b. Science competitions	Ⓐ	Ⓑ	Ⓒ	VH142244
c. Science-related field trips (including museums, zoos, aquariums, science centers, and other similar sites)	Ⓐ	Ⓑ	Ⓒ	VH142243

Teacher Grade 4 KaSA
Background, Education, Training
(adapted for Puerto Rico)

Teacher Grade 4 KaSA BET Questions

VB331330

1. Are you Hispanic or Latino? Select **all** squares that apply.

Ⓐ 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? Select **all** squares that apply.

Ⓐ 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.

VF241195

5. Do you hold a regular or standard teaching certificate in Puerto Rico?

Ⓐ 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.

VF096243

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.)

Ⓐ Yes

Ⓑ No

VC309891

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.)

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

Ⓑ I am working towards my National Board certification.

Ⓒ No

HE001012

8. 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.)

VB333658

9. Did you have a major, minor, or special emphasis in any of the following subjects as part of your **undergraduate** coursework? Select **one** circle in each row.

	Yes, a major	Yes, a minor or special emphasis	No	
a. Mathematics education	Ⓐ	Ⓑ	Ⓒ	VB482657
b. Mathematics	Ⓐ	Ⓑ	Ⓒ	VB482658
c. Engineering or engineering education	Ⓐ	Ⓑ	Ⓒ	VC304764
d. Other mathematics-related subject such as statistics	Ⓐ	Ⓑ	Ⓒ	VB608497
e. Education (including elementary or early childhood)	Ⓐ	Ⓑ	Ⓒ	VB482660
f. Special education (including students with disabilities)	Ⓐ	Ⓑ	Ⓒ	VE113515
g. Spanish language learning	Ⓐ	Ⓑ	Ⓒ	VF269303

VE741708

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

Ⓐ Yes ➔ *Go to Question 11.*

Ⓑ No ➔ *Skip to Question 12.*

VB345619

11. Did you have a major, minor, or special emphasis in any of the following subjects as part of your **graduate** coursework? Select **one** circle in each row.

	Yes, a major	Yes, a minor or special emphasis	No	
a. Mathematics education	Ⓐ	Ⓑ	Ⓒ	VB473837
b. Mathematics	Ⓐ	Ⓑ	Ⓒ	VB473838
c. Engineering or engineering education	Ⓐ	Ⓑ	Ⓒ	VC304761
d. Other mathematics-related subject such as statistics	Ⓐ	Ⓑ	Ⓒ	VB473839
e. Education (including elementary or early childhood)	Ⓐ	Ⓑ	Ⓒ	VB473840
f. Special education (including students with disabilities)	Ⓐ	Ⓑ	Ⓒ	VE113560
g. Spanish language learning	Ⓐ	Ⓑ	Ⓒ	VF269309

VB543441

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? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. How students learn mathematics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543502
b. Mathematics theory or applications	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543503
c. Content standards in mathematics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543504
d. Curricular materials available in mathematics (units, texts)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543505
e. Instructional methods for teaching mathematics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543506
f. Effective use of manipulatives in mathematics instruction	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB519181
g. Effective use of calculators in mathematics instruction	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543507
h. Use of computers or other technology in mathematics instruction	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543508
i. Methods for assessing students in mathematics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543509
j. Preparation of students for district and state assessments	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543510
k. Issues related to ability grouping in mathematics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543511
l. Strategies for teaching mathematics to students from diverse backgrounds (including Spanish language learners)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC038711

VB482582

13. During the last **two years**, did you participate in or lead any of the following professional development activities **related to the teaching of mathematics**? Select **one** circle in each row.

	Yes	No	
a. College course taken after your first certification	Ⓐ	Ⓑ	VB482583
b. Workshop or training session	Ⓐ	Ⓑ	VB482584
c. Conference or professional association meeting	Ⓐ	Ⓑ	VB482585
d. Observational visit to another school	Ⓐ	Ⓑ	VB482586
e. Mentoring and/or peer observation and coaching as part of a formal arrangement	Ⓐ	Ⓑ	VB482587
f. Committee or task force focusing on curriculum, instruction, or student assessment	Ⓐ	Ⓑ	VB482588
g. Regularly scheduled discussion or study group	Ⓐ	Ⓑ	VB482589
h. Teacher collaborative or network, such as one organized by an outside agency or over the Internet	Ⓐ	Ⓑ	VB482590
i. Individual or collaborative research	Ⓐ	Ⓑ	VB482591
j. Independent reading on a regular basis—for example, educational journals, books, or the Internet	Ⓐ	Ⓑ	VB482592
k. Co-teaching/team teaching	Ⓐ	Ⓑ	VB482593
l. Consultation with a mathematics specialist	Ⓐ	Ⓑ	VB482594

VC309922

14. Did you lead any of the activities listed in the previous question (Question 13)?

Ⓐ Yes

Ⓑ No

VC191232

15. During the last **two years**, have you received training from any source in any of the following areas? Select **one** circle in each row.

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

Teacher Grade 4 KaSA
Classroom Organization and Instruction - Math
(adapted for Puerto Rico)

Teacher Grade 4 KaSA COI-Math Questions

The following questions ask about the organization of your classroom for mathematics 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 mathematics, you have finished this questionnaire. Thank you for your time.

VC311698

1. Which best describes your role in teaching mathematics to this class?

Ⓐ I do not teach mathematics to this class.

Ⓑ I teach all or most subjects, including mathematics.

Ⓒ The only subject I teach is mathematics.

Ⓓ We team teach, and I have primary responsibility for teaching mathematics.

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

VB543515

3. How many hours of mathematics instruction do your students receive in a typical week?

Ⓐ Less than 3 hours

Ⓑ At least 3 hours, but less than 5 hours

Ⓒ At least 5 hours, but less than 7 hours

Ⓓ 7 or more hours

HE002412

4. Are students assigned to this class by ability?

Ⓐ Yes

Ⓑ No

HE001104

5. Do you create groups within this class for mathematics instruction on the basis of ability?

Ⓐ Yes

Ⓑ No

HE001130

6. How often do you use each of the following to assess student progress in mathematics? Select **one** circle in each row.

	Never or hardly ever	Once or twice a year	Once or twice a month	Once or twice a week	
a. Multiple-choice tests	Ⓐ	Ⓑ	Ⓒ	Ⓓ	HE001131
b. Problem sets	Ⓐ	Ⓑ	Ⓒ	Ⓓ	HE001132
c. Short (e.g., a phrase or sentence) or long (e.g., several sentences or paragraphs) written responses	Ⓐ	Ⓑ	Ⓒ	Ⓓ	HE001133
d. Individual or group projects or presentations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	HE001134

HE001106

7. Approximately how much mathematics homework do you assign to students in this class each day?

Ⓐ None

Ⓑ 15 minutes

Ⓒ 30 minutes

Ⓓ 45 minutes

Ⓔ One hour

Ⓕ More than one hour

VB543554

8. To what extent are students permitted to use calculators during mathematics lessons?

Ⓐ Unrestricted use

Ⓑ Restricted use

Ⓒ Calculators are not permitted.

VB535973

9. What kind of calculator do your students usually use during mathematics lessons?

Ⓐ None

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

Ⓒ Scientific (not graphing)

Ⓓ Graphing

VB535974

10. When you give students a mathematics test or quiz, how often do they use a calculator?

Ⓐ Never

Ⓑ Sometimes

Ⓒ Always

TO044600

11. Think about your plans for this mathematics class for the entire year. How much emphasis did you or will you give each of the following? Select **one** circle in each row.

	Little or no emphasis	Moderate emphasis	Heavy emphasis	
a. Numbers and operations	Ⓐ	Ⓑ	Ⓒ	ID110366
b. Measurement	Ⓐ	Ⓑ	Ⓒ	ID110367
c. Geometry	Ⓐ	Ⓑ	Ⓒ	ID110368
d. Data analysis, statistics, and probability (informal introduction of concepts)	Ⓐ	Ⓑ	Ⓒ	ID110369
e. Algebra and functions (informal introduction of concepts)	Ⓐ	Ⓑ	Ⓒ	ID110370

VB543516

12. Are computers available for use by you or your students?

Ⓐ Yes, computers are available to my students and to me.

Ⓑ Yes, I have access to computers, but my students do not.

Ⓒ No, neither my students nor I have access to computers at school.

VC976197

13. In your fourth-grade mathematics class this year, how often do your students use a computer or other technological resources to do each of the following? Select **one** circle in each row.

	Never or hardly ever	Once or twice a month	Once or twice a week	Every day or almost every day	
a. Practice or review mathematics topics on the computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976199
b. Extend mathematics learning with enrichment activities on the computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976201
c. Research a mathematics topic on the computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VF018142
d. Use a drawing program for geometric shapes	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976206
e. Play mathematics computer games	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976210

VC976295

14. Which of the following statements best describes how well your school system provides you with the materials and other resources you need for mathematics instruction?

Ⓐ I do not have the resources I need.

Ⓑ I have some of the resources I need.

Ⓒ I have most of the resources I need.

Ⓓ I have all of the resources I need.

VC976296

15. When you teach mathematics to your fourth-grade class, do you do any of the following? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. Set different achievement standards for some students	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976297
b. Supplement the regular course curriculum with additional material for some students	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976298
c. Have some students engage in different classroom activities	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976299
d. Use a different set of methods in teaching some students	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976300
e. Pace my teaching differently for some students	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976301

VC976303

16. How often do you do each of the following with individual students to evaluate their progress in mathematics? Select **one** circle in each row.

	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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC976304
b. Set goals for specific progress the student would like to make	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC976305
c. Discuss progress the student has made toward goals previously set	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC976306
d. Determine how to adjust your teaching strategies to meet the student's current learning needs and to reflect the student's future goals	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC976307

Teacher Grade 4 NIES

Teacher Grade 4 NIES Questions

The amount of time estimated to complete this form is 20 minutes.

National Indian Education Study

Grade 4 Teacher Questionnaire

The questions in this survey are designed to gather information about the classroom experiences of American Indian or Alaska Native (AI/AN) students. In particular, we ask about the inclusion of native languages and cultural perspectives in the curriculum and about interactions between the school and the AI/AN community. Teachers who have only a few AI/AN students in their classes may adopt different teaching strategies than teachers who have many such students. There are no wrong answers to these questions.

Use only a No. 2 pencil to answer all questions in this booklet. Some questions require you to answer by filling in the ovals completely. For other questions, you are asked to fill in numbers. For these questions, please print the appropriate number LEGIBLY in each of the boxes provided. Keep all printing in boxes.

Example:
5 Should be written as

Other questions require you to PRINT ANSWERS LEGIBLY on the lines indicated. For all questions, do not make any stray marks.

VC190809

1. Counting this year, how many years have you taught at this school? If less than 1 year total at this school, enter "01."

☐☐ Years

VH018105

2. How many students are currently in your class?

☐☐ Students

VB592443

3. To what extent have you acquired knowledge, skills, and information specific to teaching American Indian or Alaska Native students from each of the following sources? Fill in **one** oval on each line.

	Not at all	Small extent	Moderate extent	Large extent	
a. Independent reading and study	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB592446
b. Your own personal or family background and experiences	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB592448
c. Locally sponsored American Indian or Alaska Native cultural orientation program	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC202922
d. Living and working in an American Indian or Alaska Native community	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC202915

VE012624

4. To what extent have you acquired knowledge, skills, and information specific to teaching American Indian or Alaska Native students from each of the following types of classes? Fill in **one** oval on each line.

	Not at all	Small extent	Moderate extent	Large extent	
a. College courses, or other classes or workshops with a focus on teaching American Indian or Alaska Native students	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE012626
b. College courses, or other classes or workshops with a general focus on various cultures or diversity	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE012628

VH158525

5. During the last two years, how many times have you consulted each of the following resources to help you improve the academic performance of your American Indian or Alaska Native students? Fill in **one** oval on each line.

	Never	1 or 2 times	3 or 4 times	5 or more times	
a. Online websites or databases	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH158526
b. Articles in professional journals	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH158527
c. Local libraries or cultural centers	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH158530
d. Other teachers in your school	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH158529
e. Elders or other experts	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH158528

VH040247

6. During the last two years, to what extent have you implemented culturally specific instructional practices for American Indian or Alaska Native students in your classroom?

Ⓐ Not at all

Ⓑ Small extent

Ⓒ Moderate extent

Ⓓ Large extent

VH040275

7. During the last two years, how many times have you attended professional or community-based development programs (such as in-service classes and workshops, including online classes) aimed at developing culturally specific instructional practices for American Indian or Alaska Native students?

Ⓐ Never ➔ *Skip to Question 10.*

Ⓑ 1 or 2 times

Ⓒ 3 or 4 times

Ⓓ 5 or more times

VH040281

8. To what extent have you implemented lessons learned from these professional or community-based development programs in your classroom?

Ⓐ Not at all

Ⓑ Small extent

Ⓒ Moderate extent

Ⓓ Large extent

VH040284

9. Who sponsored the professional or community-based development programs you attended in the last two years? Fill in **all** ovals that apply.

- Ⓐ State
- Ⓑ District
- Ⓒ Tribal education department
- Ⓓ Indian education professional associations
- Ⓔ College or university
- Ⓕ Other (please specify): _____

VE012654

10. To what extent do you speak any of the native languages spoken by American Indian or Alaska Native students who attend this school? If you know more than one of these languages, answer for the one you know best.

- Ⓐ No knowledge or skill; nonspeaker
- Ⓑ Minimal functional or communicative ability; ability to use some words or phrases
- Ⓒ Moderate communicative ability; can express some ideas and communicate in some situations, but limited and cannot always express ideas
- Ⓓ Fluent nonnative speaker
- Ⓔ Fluent native speaker

VE012658

11. To what extent do you use your students' American Indian or Alaska Native language(s) when you teach any core subject (reading, mathematics, science, and social studies)?

- Ⓐ Instruction is entirely in English.
- Ⓑ Instruction is primarily in English, but words or phrases from the students' American Indian or Alaska Native language(s) are included occasionally.
- Ⓒ Instruction is primarily in English, but words or phrases from the students' American Indian or Alaska Native language(s) are included frequently.
- Ⓓ Instruction is primarily in the students' American Indian or Alaska Native language(s).

VE012660

12. Have you received any of the following forms of preparation for teaching students whose first language is not English (sometimes called Limited English Proficiency [LEP] students or English Language Learners [ELL])? Fill in **one** oval on each line.

	Yes	No	
a. At least one college-level course on how to teach students whose first language is not English (but not a major, minor, or special emphasis)	Ⓐ	Ⓑ	VE012662
b. An undergraduate or graduate major, minor, or special emphasis in teaching English as a Second Language (ESL), English Language Development (ELD), or Bilingual Education	Ⓐ	Ⓑ	VE012665
c. Any other training or professional development on how to teach students whose first language is not English	Ⓐ	Ⓑ	VE012666

VH154089

13. To what extent do you use the following to assess the progress of your American Indian or Alaska Native students? Fill in **one** oval on each line.

	Not at all	Small extent	Moderate extent	Large extent	
a. State assessments	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154090
b. District assessments	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154091
c. Assessments developed by American Indian or Alaska Native organizations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154092
d. Tests supplied by textbook publishers (for example, end of unit or chapter tests)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154093
e. Teacher-made tests or quizzes	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154098
f. Performance-based assessments	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154095
g. Group projects	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154096
h. Oral responses of students during class discussions	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154097
i. Assessments to evaluate English language proficiency	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154925

VH043923

14. Do you teach **reading/language arts** to grade 4 students?

Ⓐ Yes ➔ *Go to Question 15.*

Ⓑ No ➔ *Skip to Question 18.*

VH040381

15. How often do you integrate materials about the following topics into your **reading/language arts** lessons? Fill in **one** oval on each line.

	Never	At least once a year	At least once a month	At least once a week	Every day or almost every day	
a. American Indian or Alaska Native culture or history	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH040385
b. Current issues affecting American Indian or Alaska Native people or communities	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH040386

VE012686

16. How often do you have your students do each of the following **reading/language arts** activities? Fill in **one** oval on each line.

	Never	At least once a year	At least once a month	At least once a week	Every day or almost every day	
a. Read literature with American Indian or Alaska Native themes	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012689
b. Read literature by American Indian or Alaska Native authors	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012690
c. Read about, or discuss, current issues of concern to the American Indian or Alaska Native community	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012691
d. Write about experiences or issues affecting American Indian or Alaska Native people	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012692
e. Write about their own experiences as an American Indian or Alaska Native person	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012693

VE012696

17. How much do you rely on each of the following documents in planning **reading/language arts** lessons? Fill in **one** oval on each line.

	Not at all	A little	Some	A lot	Not aware of any	
a. Standards developed by national professional organizations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012698
b. State content standards	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012700
c. District content standards	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012701
d. American Indian or Alaska Native content or cultural standards	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012703

VH043941

18. Do you teach **mathematics** to grade 4 students?

Ⓐ Yes ➔ *Go to Question 19.*

Ⓑ No ➔ *Skip to Question 22.*

VH040387

19. How often do you integrate materials about the following topics into your **mathematics** lessons? Fill in **one** oval on each line.

	Never	At least once a year	At least once a month	At least once a week	Every day or almost every day	
a. American Indian or Alaska Native culture or history	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH040390
b. Current issues affecting American Indian or Alaska Native people or communities	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH040392

VE012730

20. How often do you have your students do each of the following **mathematics** activities? Fill in **one** oval on each line.

	Never	At least once a year	At least once a month	At least once a week	Every day or almost every day	
a. Solve mathematics problems that reflect situations found in American Indian or Alaska Native communities	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012733
b. Participate in activities that integrate mathematics with American Indian or Alaska Native themes (for example, use traditional symbols and designs to teach geometric concepts)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012735
c. Study traditional American Indian or Alaska Native mathematics (for example, American Indian or Alaska Native systems of counting, estimating, and recording quantities)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012737
d. Study mathematics within traditional American Indian or Alaska Native contexts (for example, American Indian or Alaska Native systems of astronomy and physics)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012739

VE012740

21. How much do you rely on each of the following documents in planning **mathematics** lessons? Fill in **one** oval on each line.

	Not at all	A little	Some	A lot	Not aware of any	
a. Standards developed by national professional organizations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012743
b. State content standards	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012746
c. District content standards	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012747
d. American Indian or Alaska Native content or cultural standards	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012749

VH043953

22. How much do you agree with each of the following statements about the materials available in your school library, media center, or resource center? Fill in **one** oval on each line.

	Strongly disagree	Disagree	Agree	Strongly agree	
a. The number of books and materials available for 4th grade students is sufficient.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH043957
b. The quality of the books and materials available for 4th grade students is satisfactory.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH043959
c. The number of books and materials **specific to American Indian and Alaska Native culture** available for 4th grade students is sufficient.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH043964
d. The quality of the books and materials **specific to American Indian and Alaska Native culture** available for 4th grade students is satisfactory.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH043966

VH040411

23. To what extent is each of the following a problem in your school? Fill in **one** oval on each line.

	Not at all	Small extent	Moderate extent	Large extent	
a. Student absenteeism	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040413
b. Student tardiness	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040414
c. Student health problems	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040416
d. Student misbehavior in class	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040422
e. Physical conflicts among students	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040424
f. Bullying	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040425
g. Low student aspirations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040427
h. Low teacher expectations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040428
i. Low family involvement	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040430

VB331330

24. 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.

VE021069

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

Ⓐ White

Ⓑ Black or African American

Ⓒ Asian

Ⓓ American Indian or Alaska Native (Print the name of your American Indian tribe or Alaska Native group below. You may indicate more than one tribe or group.)

_____

Ⓔ Native Hawaiian or other Pacific Islander

VE012750

26. What have you found to be the most effective teaching and learning strategies for increasing the achievement of your American Indian or Alaska Native students?

VE012752

27. In the space below, please share with us your thoughts about any other important issue(s) about your students, school, or community that are related to student academic performance, student aspirations, or other educational matters.

NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

Wave 2 Submittal for 2015
VOLUME II
SURVEY QUESTIONS

Part 2b
Teacher Grade 8

Part 2b contains Teacher Grade 8 components:

Science — Background, Education, Training
Science — Classroom Organization and Instruction
KaSA (Puerto Rico adapted) Teacher — BET, COI-Math
NIES Questions

The amount of time estimated to complete these forms:
Grade 8 Teacher Questionnaire – 20 minutes, 30 minutes if more than one subject
KaSA (Puerto Rico adapted) Teacher – 20 minutes
NIES Teacher Questionnaire – 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 it displays a valid OMB control number. The valid OMB control number for this voluntary information collection is 1850–0790. The time required to complete this information collection is estimated to average xx[1] 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, suggestions for improving this collection, or any comments or concerns regarding the status of your individual submission of this form, please write to: National Assessment of Educational Progress, National Center for Education Statistics, 1990 K Street, NW, Washington, DC 20006.

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

[1] 20 minutes for complete Grade 8 teacher questionnaire (30 minutes, if more than one subject); 20 minutes for NIES teacher questionnaire; 20 minutes for KaSA teacher.

Teacher Grade 8
Background, Education, Training (BET) – Science

Teacher Grade 8 BET-Science Questions

VB331330

1. Are you Hispanic or Latino? Select **all** squares that apply.

Ⓐ 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? Select **all** squares that apply.

Ⓐ 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

VF883718

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

Ⓐ Less than 1 year

Ⓑ 1–2 years

Ⓒ 3–5 years

Ⓓ 6–10 years

Ⓔ 11–20 years

Ⓕ 21 or more years

VE577841

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

Ⓐ Yes

Ⓑ No

Ⓒ My school does not award tenure.

VF096239

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.

VF096243

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

VC309891

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

HE001012

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.)

VB333658

10. Did you have a major, minor, or special emphasis in any of the following subjects as part of your **undergraduate** coursework? Select **one** circle in each row.

	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

VE741708

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

Ⓐ Yes ➔ *Go to Question 12.*

Ⓑ No ➔ *Skip to Question 13.*

VB345619

12. Did you have a major, minor, or special emphasis in any of the following subjects as part of your **graduate** coursework? Select **one** circle in each row.

	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. Mathematics or mathematics education	Ⓐ	Ⓑ	Ⓒ	VB595997
e. Science education	Ⓐ	Ⓑ	Ⓒ	VB556072
f. Engineering or engineering education	Ⓐ	Ⓑ	Ⓒ	VC304761
g. Elementary or secondary education	Ⓐ	Ⓑ	Ⓒ	VB595190
h. Special education (including students with disabilities)	Ⓐ	Ⓑ	Ⓒ	VE113560
i. English language learning	Ⓐ	Ⓑ	Ⓒ	VE113562

VC304726

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? Select **one** circle in each row.

	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

VC323259

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**? Select **one** circle in each row.

	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? Select **one** circle in each row.

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

Teacher Grade 8
Classroom Organization and Instruction (COI) – Science

Teacher Grade 8 COI-Science Questions

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.

VB598092

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

Ⓐ 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

VH142009

3. In a typical week, how much time do you spend teaching science to the students in this class? Write in the hours and minutes.

_____ hours and _____ minutes per week

VH142206

4. Are students assigned to this class by achievement level?

Ⓐ Yes

Ⓑ No

VF633144

5. To what extent do you use each of the following student groupings for science instruction in your classroom? Select **one** circle in each row.

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

VB610542

6. How often do you use each of the following to assess student progress in science? Select **one** circle in each row.

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day	
a. Multiple-choice tests	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB610543
b. Short written responses (e.g., a phrase or sentence)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB610544
c. Long written responses (e.g., several sentences or paragraphs)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB610545
d. Performance-based assessments	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH157952
e. Group projects	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH157953

VB608618

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

	None	Little	Some	A lot	
a. Life science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608619
b. Earth and space science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC759072
c. Physical science	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB608621
d. Engineering and technology	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC759073

VC767836

8. About how often do your science students do each of the following? Select **one** circle in each row.

	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? Select **one** circle in each row.

	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? Select **one** circle in each row.

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

11. To what extent do you use each of the following technological resources for eighth-grade science instruction? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. Desktop computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976050
b. Laptop computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976051
c. Tablet computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH157981
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
i. DVD player and DVDs	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976063
j. Digital camera	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976067
k. Graphing calculator	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976068
l. Handheld device (pocket-sized computing device, such as personal digital assistant or smartphone)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976071
m. Data collection sensors/ probes (tool that connects to a handheld device or graphing calculator and detects motion, pH, temperature, light)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976072
n. Online course management system (web-based software used to organize information, assignments, grades, and discussions)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976073
o. Digital whiteboard (computerized display panels that can respond to fingertip command and creates a shared interactive space, akin to traditional chalkboards)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	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? Select **one** circle in each row.

	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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976080
b. Simulate a physical or biological process or see how something works (for example, how planets orbit the sun, how gas expands)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976081
c. Make a chart or graph that shows results of science projects	Ⓐ	Ⓑ	Ⓒ	Ⓓ	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?

Ⓐ 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.

VC976085

14. When you teach science to your eighth-grade class, do you do any of the following? Select **one** circle in each row.

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

VC767810

15. 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

VC767829

16. How often do you do each of the following with individual students to evaluate their progress in science? Select **one** circle in each row.

	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

VH142282

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

	Not at all	1–2 times per year	3 or more times per year	
a. Science fairs	Ⓐ	Ⓑ	Ⓒ	VH142283
b. Science competitions	Ⓐ	Ⓑ	Ⓒ	VH142284
c. Science-related field trips (including museums, zoos, aquariums, science centers, and other similar sites)	Ⓐ	Ⓑ	Ⓒ	VH142285

Teacher Grade 8 KaSA
Background, Education, Training
(adapted for Puerto Rico)

Teacher Grade 8 KaSA BET Questions

VB331330

1. Are you Hispanic or Latino? Select **all** squares that apply.

- Ⓐ 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? Select **all** squares that apply.

- Ⓐ 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

VE654882

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

Ⓐ Less than 1 year

Ⓑ 1–2 years

Ⓒ 3–5 years

Ⓓ 6–10 years

Ⓔ 11–20 years

Ⓕ 21 or more years

VE577841

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

Ⓐ Yes

Ⓑ No

Ⓒ My school does not award tenure.

VF241195

6. Do you hold a regular or standard teaching certificate in Puerto Rico?

Ⓐ 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.

VF096243

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

VC309891

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

HE001012

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.)

VB333658

10. Did you have a major, minor, or special emphasis in any of the following subjects as part of your **undergraduate** coursework? Select **one** circle in each row.

	Yes, a major	Yes, a minor or special emphasis	No	
a. Mathematics education	Ⓐ	Ⓑ	Ⓒ	VB482657
b. Mathematics	Ⓐ	Ⓑ	Ⓒ	VB482658
c. Other mathematics-related subject such as statistics	Ⓐ	Ⓑ	Ⓒ	VB608497
d. Education (including secondary education)	Ⓐ	Ⓑ	Ⓒ	VB482938
e. Special education (including students with disabilities)	Ⓐ	Ⓑ	Ⓒ	VE113515
f. Spanish language learning	Ⓐ	Ⓑ	Ⓒ	VF269303

VE741708

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

Ⓐ Yes ➔ *Go to Question 12.*

Ⓑ No ➔ *Skip to Question 13.*

VB345619

12. Did you have a major, minor, or special emphasis in any of the following subjects as part of your **graduate** coursework? Select **one** circle in each row.

	Yes, a major	Yes, a minor or special emphasis	No	
a. Mathematics education	Ⓐ	Ⓑ	Ⓒ	VB473837
b. Mathematics	Ⓐ	Ⓑ	Ⓒ	VB473838
c. Other mathematics-related subject such as statistics	Ⓐ	Ⓑ	Ⓒ	VB473839
d. Education (including secondary education)	Ⓐ	Ⓑ	Ⓒ	VB482939
e. Special education (including students with disabilities)	Ⓐ	Ⓑ	Ⓒ	VE113560
f. Spanish language learning	Ⓐ	Ⓑ	Ⓒ	VF269309

VB543441

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? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. How students learn mathematics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543502
b. Mathematics theory or applications	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543503
c. Content standards in mathematics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543504
d. Curricular materials available in mathematics (units, texts)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543505
e. Instructional methods for teaching mathematics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543506
f. Effective use of manipulatives in mathematics instruction	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB519181
g. Effective use of calculators in mathematics instruction	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543507
h. Use of computers or other technology in mathematics instruction	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543508
i. Methods for assessing students in mathematics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543509
j. Preparation of students for district and state assessments	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543510
k. Issues related to ability grouping in mathematics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB543511
l. Strategies for teaching mathematics to students from diverse backgrounds (including Spanish language learners)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC038711

VB482582

14. During the last **two years**, did you participate in or lead any of the following professional development activities **related to the teaching of mathematics**? Select **one** circle in each row.

	Yes	No	
a. College course taken after your first certification	Ⓐ	Ⓑ	VB482583
b. Workshop or training session	Ⓐ	Ⓑ	VB482584
c. Conference or professional association meeting	Ⓐ	Ⓑ	VB482585
d. Observational visit to another school	Ⓐ	Ⓑ	VB482586
e. Mentoring and/or peer observation and coaching as part of a formal arrangement	Ⓐ	Ⓑ	VB482587
f. Committee or task force focusing on curriculum, instruction, or student assessment	Ⓐ	Ⓑ	VB482588
g. Regularly scheduled discussion or study group	Ⓐ	Ⓑ	VB482589
h. Teacher collaborative or network, such as one organized by an outside agency or over the Internet	Ⓐ	Ⓑ	VB482590
i. Individual or collaborative research	Ⓐ	Ⓑ	VB482591
j. Independent reading on a regular basis—for example, educational journals, books, or the Internet	Ⓐ	Ⓑ	VB482592
k. Co-teaching/team teaching	Ⓐ	Ⓑ	VB482593
l. Consultation with a mathematics specialist	Ⓐ	Ⓑ	VB482594

VB543642

15. Are you teaching the following mathematics courses to eighth-grade students **this year**? Include honors sections. Select **one** circle in each row.

	Yes	No	
a. Remedial mathematics	Ⓐ	Ⓑ	VB543643
b. General mathematics	Ⓐ	Ⓑ	VB543644
c. Introduction to algebra/pre-algebra	Ⓐ	Ⓑ	VB543645
d. Algebra	Ⓐ	Ⓑ	VB543646
e. Integrated or sequential mathematics	Ⓐ	Ⓑ	VB543647
f. Geometry	Ⓐ	Ⓑ	VB543648

Teacher Grade 8 KaSA
Classroom Organization and Instruction - Math
(adapted for Puerto Rico)

Teacher Grade 8 KaSA COI-Math Questions

The following questions ask about the organization of your classroom for mathematics 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 mathematics, you have finished this questionnaire. Thank you for your time.

VC311698

1. Which best describes your role in teaching mathematics to this class?

Ⓐ I do not teach mathematics to this class.

Ⓑ I teach all or most subjects, including mathematics.

Ⓒ The only subject I teach is mathematics.

Ⓓ We team teach, and I have primary responsibility for teaching mathematics.

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

VB543515

3. How many hours of mathematics instruction do your students receive in a typical week?

Ⓐ Less than 3 hours

Ⓑ At least 3 hours, but less than 5 hours

Ⓒ At least 5 hours, but less than 7 hours

Ⓓ 7 or more hours

HE002412

4. Are students assigned to this class by ability?

Ⓐ Yes

Ⓑ No

HE001104

5. Do you create groups within this class for mathematics instruction on the basis of ability?

Ⓐ Yes

Ⓑ No

HE001130

6. How often do you use each of the following to assess student progress in mathematics? Select **one** circle in each row.

	Never or hardly ever	Once or twice a year	Once or twice a month	Once or twice a week	
a. Multiple-choice tests	Ⓐ	Ⓑ	Ⓒ	Ⓓ	HE001131
b. Problem sets	Ⓐ	Ⓑ	Ⓒ	Ⓓ	HE001132
c. Short (e.g., a phrase or sentence) or long (e.g., several sentences or paragraphs) written responses	Ⓐ	Ⓑ	Ⓒ	Ⓓ	HE001133
d. Individual or group projects or presentations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	HE001134

HE001106

7. Approximately how much mathematics homework do you assign to students in this class each day?

Ⓐ None

Ⓑ 15 minutes

Ⓒ 30 minutes

Ⓓ 45 minutes

Ⓔ One hour

Ⓕ More than one hour

VB543554

8. To what extent are students permitted to use calculators during mathematics lessons?

Ⓐ Unrestricted use

Ⓑ Restricted use

Ⓒ Calculators are not permitted.

VB535973

9. What kind of calculator do your students usually use during mathematics lessons?

Ⓐ None

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

Ⓒ Scientific (not graphing)

Ⓓ Graphing

VB535974

10. When you give students a mathematics test or quiz, how often do they use a calculator?

Ⓐ Never

Ⓑ Sometimes

Ⓒ Always

TO044600

11. Think about your plans for this mathematics class for the entire year. How much emphasis did you or will you give each of the following? Select **one** circle in each row.

	Little or no emphasis	Moderate emphasis	Heavy emphasis	
a. Numbers and operations	Ⓐ	Ⓑ	Ⓒ	ID110366
b. Measurement	Ⓐ	Ⓑ	Ⓒ	ID110367
c. Geometry	Ⓐ	Ⓑ	Ⓒ	ID110368
d. Data analysis, statistics, and probability	Ⓐ	Ⓑ	Ⓒ	VC767633
e. Algebra and functions	Ⓐ	Ⓑ	Ⓒ	VC767634

VB543516

12. Are computers available for use by you or your students?

Ⓐ Yes, computers are available to my students and to me.

Ⓑ Yes, I have access to computers, but my students do not.

Ⓒ No, neither my students nor I have access to computers at school.

VC976333

13. In your eighth-grade mathematics class this year, how often do your students use a computer or other technological resources to do each of the following? Select **one** circle in each row.

	Never or hardly ever	Once or twice a month	Once or twice a week	Every day or almost every day	
a. Practice or review mathematics topics on the computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976334
b. Extend mathematics learning with enrichment activities on the computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976335
c. Research a mathematics topic on the computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VF018146
d. Use a drawing program for geometric shapes	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976339
e. Use a graphing program	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976353
f. Play mathematics computer games	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976355

VC976295

14. Which of the following statements best describes how well your school system provides you with the materials and other resources you need for mathematics instruction?

Ⓐ I do not have the resources I need.

Ⓑ I have some of the resources I need.

Ⓒ I have most of the resources I need.

Ⓓ I have all of the resources I need.

VC976362

15. When you teach mathematics to your eighth-grade class, do you do any of the following? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. Set different achievement standards for some students	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976363
b. Supplement the regular course curriculum with additional material for some students	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976364
c. Have some students engage in different classroom activities	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976365
d. Use a different set of methods in teaching some students	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976366
e. Pace my teaching differently for some students	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC976367

VC976303

16. How often do you do each of the following with individual students to evaluate their progress in mathematics? Select **one** circle in each row.

	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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC976304
b. Set goals for specific progress the student would like to make	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC976305
c. Discuss progress the student has made toward goals previously set	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC976306
d. Determine how to adjust your teaching strategies to meet the student's current learning needs and to reflect the student's future goals	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC976307

Teacher Grade 8 NIES

Teacher Grade 8 NIES Questions

The amount of time estimated to complete this form is 20 minutes.

National Indian Education Study

Grade 8 Teacher Questionnaire

The questions in this survey are designed to gather information about the classroom experiences of American Indian or Alaska Native (AI/AN) students. In particular, we ask about the inclusion of native languages and cultural perspectives in the curriculum and about interactions between the school and the AI/AN community. Teachers who have only a few AI/AN students in their classes may adopt different teaching strategies than teachers who have many such students. There are no wrong answers to these questions.

Use only a No. 2 pencil to answer all questions in this booklet. Some questions require you to answer by filling in the ovals completely. For other questions, you are asked to fill in numbers. For these questions, please print the appropriate number LEGIBLY in each of the boxes provided. Keep all printing in boxes.

Example:
5 Should be written as

Other questions require you to PRINT ANSWERS LEGIBLY on the lines indicated. For all questions, do not make any stray marks.

VC190809

1. Counting this year, how many years have you taught at this school? If less than 1 year total at this school, enter "01."

☐☐ Years

VB592443

2. To what extent have you acquired knowledge, skills, and information specific to teaching American Indian or Alaska Native students from each of the following sources? Fill in **one** oval on each line.

	Not at all	Small extent	Moderate extent	Large extent	
a. Independent reading and study	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB592446
b. Your own personal or family background and experiences	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VB592448
c. Locally sponsored American Indian or Alaska Native cultural orientation program	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC202922
d. Living and working in an American Indian or Alaska Native community	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC202915

VE012624

3. To what extent have you acquired knowledge, skills, and information specific to teaching American Indian or Alaska Native students from each of the following types of classes? Fill in **one** oval on each line.

	Not at all	Small extent	Moderate extent	Large extent	
a. College courses, or other classes or workshops with a focus on teaching American Indian or Alaska Native students	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE012626
b. College courses, or other classes or workshops with a general focus on various cultures or diversity	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE012628

VH158525

4. During the last two years, how many times have you consulted each of the following resources to help you improve the academic performance of your American Indian or Alaska Native students? Fill in **one** oval on each line.

	Never	1 or 2 times	3 or 4 times	5 or more times	
a. Online websites or databases	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH158526
b. Articles in professional journals	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH158527
c. Local libraries or cultural centers	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH158530
d. Other teachers in your school	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH158529
e. Elders or other experts	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH158528

VH040247

5. During the last two years, to what extent have you implemented culturally specific instructional practices for American Indian or Alaska Native students in your classroom?

Ⓐ Not at all

Ⓑ Small extent

Ⓒ Moderate extent

Ⓓ Large extent

VH040275

6. During the last two years, how many times have you attended professional or community-based development programs (such as in-service classes and workshops, including online classes) aimed at developing culturally specific instructional practices for American Indian or Alaska Native students?

Ⓐ Never ➔ *Skip to Question 9.*

Ⓑ 1 or 2 times

Ⓒ 3 or 4 times

Ⓓ 5 or more times

VH040281

7. To what extent have you implemented lessons learned from these professional or community-based development programs in your classroom?

Ⓐ Not at all

Ⓑ Small extent

Ⓒ Moderate extent

Ⓓ Large extent

VH040284

8. Who sponsored the professional or community-based development programs you attended in the last two years? Fill in **all** ovals that apply.

Ⓐ State

Ⓑ District

Ⓒ Tribal education department

Ⓓ Indian education professional associations

Ⓔ College or university

Ⓕ Other (please specify): _____

VE012654

9. To what extent do you speak any of the native languages spoken by American Indian or Alaska Native students who attend this school? If you know more than one of these languages, answer for the one you know best.

Ⓐ No knowledge or skill; nonspeaker

Ⓑ Minimal functional or communicative ability; ability to use some words or phrases

Ⓒ Moderate communicative ability; can express some ideas and communicate in some situations, but limited and cannot always express ideas

Ⓓ Fluent nonnative speaker

Ⓔ Fluent native speaker

VE012660

10. Have you received any of the following forms of preparation for teaching students whose first language is not English (sometimes called Limited English Proficiency [LEP] students or English Language Learners [ELL])? Fill in **one** oval on each line.

	Yes	**No**	
a. At least one college-level course on how to teach students whose first language is not English (but not a major, minor, or special emphasis)	Ⓐ	Ⓑ	VE012662
b. An undergraduate or graduate major, minor, or special emphasis in teaching English as a Second Language (ESL), English Language Development (ELD), or Bilingual Education	Ⓐ	Ⓑ	VE012665
c. Any other training or professional development on how to teach students whose first language is not English	Ⓐ	Ⓑ	VE012666

VH154089

11. To what extent do you use the following to assess the progress of your American Indian or Alaska Native students? Fill in **one** oval on each line.

	Not at all	Small extent	Moderate extent	Large extent	
a. State assessments	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154090
b. District assessments	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154091
c. Assessments developed by American Indian or Alaska Native organizations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154092
d. Tests supplied by textbook publishers (for example, end of unit or chapter tests)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154093
e. Teacher-made tests or quizzes	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154098
f. Performance-based assessments	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154095
g. Group projects	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154096
h. Oral responses of students during class discussions	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154097
i. Assessments to evaluate English language proficiency	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH154925

VE012771

12. Do you teach **reading/language arts** to grade 8 students?

Ⓐ Yes ➔ *Go to Question 13.*

Ⓑ No ➔ *Skip to Question 18.*

VE012774

13. How many students are American Indian or Alaska Native in your **reading/language arts** class? (Include both enrolled tribal members and descendants in your calculations.)

Ⓐ Few (less than 5)

Ⓑ Several, but less than half the class

Ⓒ At least half the class, but not every student

Ⓓ The whole class

Ⓔ I don't know.

VE012780

14. To what extent do you use your students' American Indian or Alaska Native language(s) when you teach **reading/language arts**?

Ⓐ Instruction is entirely in English.

Ⓑ Instruction is primarily in English, but words or phrases from the students' American Indian or Alaska Native language(s) are included occasionally.

Ⓒ Instruction is primarily in English, but words or phrases from the students' American Indian or Alaska Native language(s) are included frequently.

Ⓓ Instruction is primarily in the students' American Indian or Alaska Native language(s).

VH040381

15. How often do you integrate materials about the following topics into your **reading/language arts** lessons? Fill in **one** oval on each line.

	Never	At least once a year	At least once a month	At least once a week	Every day or almost every day	
a. American Indian or Alaska Native culture or history	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH040385
b. Current issues affecting American Indian or Alaska Native people or communities	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH040386

VE012686

16. How often do you have your students do each of the following **reading/language arts** activities? Fill in **one** oval on each line.

	Never	At least once a year	At least once a month	At least once a week	Every day or almost every day	
a. Read literature with American Indian or Alaska Native themes	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012689
b. Read literature by American Indian or Alaska Native authors	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012690
c. Read about, or discuss, current issues of concern to the American Indian or Alaska Native community	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012691
d. Write about experiences or issues affecting American Indian or Alaska Native people	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012692
e. Write about their own experiences as an American Indian or Alaska Native person	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012693

VE012696

17. How much do you rely on each of the following documents in planning **reading/language arts** lessons? Fill in **one** oval on each line.

	Not at all	A little	Some	A lot	Not aware of any	
a. Standards developed by national professional organizations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012698
b. State content standards	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012700
c. District content standards	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012701
d. American Indian or Alaska Native content or cultural standards	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012703

VE012783

18. Do you teach **mathematics** to grade 8 students?

Ⓐ Yes ➔ *Go to Question 19.*

Ⓑ No ➔ *Skip to Question 24.*

VE012784

19. How many students are American Indian or Alaska Native in your **mathematics** class? (Include both enrolled tribal members and descendants in your calculations.)

Ⓐ Few (less than 5)

Ⓑ Several, but less than half the class

Ⓒ At least half the class, but not every student

Ⓓ The whole class

Ⓔ I don't know.

VE012785

20. To what extent do you use your students' American Indian or Alaska Native language(s) when you teach **mathematics**?

Ⓐ Instruction is entirely in English.

Ⓑ Instruction is primarily in English, but words or phrases from the students' American Indian or Alaska Native language(s) are included occasionally.

Ⓒ Instruction is primarily in English, but words or phrases from the students' American Indian or Alaska Native language(s) are included frequently.

Ⓓ Instruction is primarily in the students' American Indian or Alaska Native language(s).

VH040387

21. How often do you integrate materials about the following topics into your **mathematics** lessons? Fill in **one** oval on each line.

	Never	At least once a year	At least once a month	At least once a week	Every day or almost every day	
a. American Indian or Alaska Native culture or history	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH040390
b. Current issues affecting American Indian or Alaska Native people or communities	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH040392

VE012730

22. How often do you have your students do each of the following **mathematics** activities? Fill in **one** oval on each line.

	Never	At least once a year	At least once a month	At least once a week	Every day or almost every day	
a. Solve mathematics problems that reflect situations found in American Indian or Alaska Native communities	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012733
b. Participate in activities that integrate mathematics with American Indian or Alaska Native themes (for example, use traditional symbols and designs to teach geometric concepts)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012735
c. Study traditional American Indian or Alaska Native mathematics (for example, American Indian or Alaska Native systems of counting, estimating, and recording quantities)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012737
d. Study mathematics within traditional American Indian or Alaska Native contexts (for example, American Indian or Alaska Native systems of astronomy and physics)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012739

VE012740

23. How much do you rely on each of the following documents in planning **mathematics** lessons? Fill in **one** oval on each line.

	Not at all	A little	Some	A lot	Not aware of any	
a. Standards developed by national professional organizations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012743
b. State content standards	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012746
c. District content standards	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012747
d. American Indian or Alaska Native content or cultural standards	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE012749

VH040395

24. How much do you agree with each of the following statements about the materials available in your school library, media center, or resource center? Fill in **one** oval on each line.

	Strongly disagree	Disagree	Agree	Strongly agree	
a. The number of books and materials available for 8th grade students is sufficient.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040399
b. The quality of the books and materials available for 8th grade students is satisfactory.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040401
c. The number of books and materials **specific to American Indian and Alaska Native culture** available for 8th grade students is sufficient.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040402
d. The quality of the books and materials **specific to American Indian and Alaska Native culture** available for 8th grade students is satisfactory.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040404

VH158533

25. About how many of your grade 8 students will complete the 8th grade?

Ⓐ None
Ⓑ A few
Ⓒ Some
Ⓓ Most
Ⓔ All
Ⓕ I don't know.

VH158536

26. About how many of your grade 8 students will be prepared for high school?

Ⓐ None
Ⓑ A few
Ⓒ Some
Ⓓ Most
Ⓔ All
Ⓕ I don't know.

VH040411

27. To what extent is each of the following a problem in your school? Fill in **one** oval on each line.

	Not at all	Small extent	Moderate extent	Large extent	
a. Student absenteeism	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040413
b. Student tardiness	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040414
c. Student health problems	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040416
d. Teen pregnancies	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040417
e. Drug or alcohol use by students	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040421
f. Student misbehavior in class	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040422
g. Physical conflicts among students	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040424
h. Bullying	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040425
i. Low student aspirations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040427
j. Low teacher expectations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040428
k. Low family involvement	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH040430

VB331330

28. 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.

VE021069

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

Ⓐ White

Ⓑ Black or African American

Ⓒ Asian

Ⓓ American Indian or Alaska Native (Print the name of your American Indian tribe or Alaska Native group below. You may indicate more than one tribe or group.)

_____

Ⓔ Native Hawaiian or other Pacific Islander

VE012750

30. What have you found to be the most effective teaching and learning strategies for increasing the achievement of your American Indian or Alaska Native students?

_____

_____

_____

_____

_____

VE012752

31. In the space below, please share with us your thoughts about any other important issue(s) about your students, school, or community that are related to student academic performance, student aspirations, or other educational matters.

_____

_____

_____

_____

_____