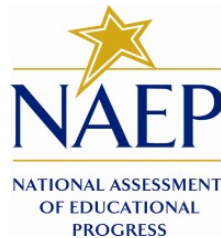


# NATIONAL CENTER FOR EDUCATION STATISTICS (NCES)

## NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

### *WAVE 1 SUBMITTAL FOR 2014 VOLUME I SUPPORTING STATEMENT*

*OMB# 1850-0790 v.37*



#### **Grade 4**

Student Core, Science Survey Questions  
Teacher Questionnaires  
School Questionnaires

#### **Grade 8**

Student Core, Civics, Geography, U.S. History, Science Survey Questions  
Teacher Questionnaires  
School Questionnaires

#### **Grade 12**

Student Core, Science Survey Questions  
School Questionnaires

May 16, 2013

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## 1. Explanation for This Submittal

This document contains supplemental information pertaining to the 2014-2016 National Assessment of Educational Progress (NAEP) system clearance proposal. NAEP is administered by the National Center for Education Statistics (NCES) in the Institute for Education Sciences of the U.S. Department of Education. The National Assessment Governing Board (henceforth referred to as the Governing Board) sets policy for NAEP and determines the content framework for each assessment. The system clearance package was submitted in November 2012 and approved in March 2013 (OMB #1850-0790 v.36). The terms of clearance for OMB approvals state that NCES will publish a notice in the Federal Register allowing a 30-day public comment period on the details of each collection concurrent with submission to OMB.

The 2014 submittal is divided into two waves to meet scheduling and question development requirements. The first wave contains the core,<sup>1</sup> social studies (civics, geography, U.S. history), and science (paper-and-pencil) descriptions, burden, and questionnaires. Wave 2 will contain technology and engineering literacy (TEL) and science ICT (interactive computer tasks) descriptions, burden, and materials, as well as information regarding school coordinator activities, including the collection of information on students with disabilities (SD) and English language learners (ELL).

This Wave 1 submittal contains burden information and survey questions (referred to as background or noncognitive questions) for the components of the NAEP 2014 assessments listed in Table 1 below.

**Table 1: List of Components in Wave 1**

<b>Component</b>	<b>Part in Volume II</b>
<b>Grade 4</b>	
Student — Core, Science	Part 1a
Teacher — Background, Education, Training (BET) - Science, Classroom Organization and Instruction (COI) - Science	Part 1b
School — School Characteristics and Policies (SCP), Science, Charter School	Part 1c
<b>Grade 8</b>	
Student — Core, Civics, Geography, U.S. History, Science	Part 2a
Teacher — BET-Social Studies (Civics, Geography, U.S. History), COI-Social Studies (Civics, Geography, U.S. History), Teacher — BET-Science, COI-Science	Part 2b
School — SCP, Social Studies (Civics, Geography, U.S. History), Science, Charter School	Part 2c
<b>Grade 12</b>	
Student — Core, Science	Part 3a
School — SCP, Science, Charter School	Part 3b

## 2. Overview of Wave 1 NAEP 2014 Assessments

Much of the following broad overview of the 2014 NAEP assessments was included as part of the 2014–2016 system clearance submittal. The Governing Board determines NAEP policy and assessment schedule, and future Governing Board decisions may result in changes to some aspects of an assessment (e.g., which

<sup>1</sup> NCES collects student question data, referred to as core questions, that are required by law (20 U.S.C. § 9622; i.e., race, ethnicity, and socioeconomic status) and provide a context for reporting student performance.

subjects are assessed in which years). However, the overall methodology and assessment process remains consistent. The national NAEP assessments contain two kinds of questions: *cognitive* (assessment questions that measure student knowledge of an academic subject) and *survey* (background questions that gather information on demographic as well as classroom instructional procedures). The Governing Board is responsible for selecting and approving all of NAEP’s survey questions, as well as the cognitive items.

The NAEP assessments are currently supported by an alliance of organizations under contract with NCES, within the U.S. Department of Education. The main NAEP assessment reports current achievement levels and trends in student achievement at grades 4, 8, and 12 for the nation and, for certain assessments, states and select urban districts. These assessments follow subject-area frameworks developed by the Governing Board and use the latest advances in assessment methodology. The subject-area frameworks evolve to match instructional practices.

### **3. Sampling Information**

The 2014 Sampling Design Memo<sup>2</sup> (see appendix D) provides specific sampling information regarding the 2014 NAEP assessments. It includes information on:

- Assessment types
- Primary Sampling Units Selection
- Stratification and Oversampling
- Overlap Control of Samples
- Substitute Samples
- Student Sampling Information
- Weighting Requirements

### **4. Information Pertaining to the 2014 Questionnaires in This Submittal**

#### **Student Questionnaires**

Core — the first survey question block for all students contains core questions, many of which are related to demographic information.

Civics — the grade 8 operational civics subject-specific questions are existing trend questions. These questions were last administered as part of the 2010 civics assessment.

Geography — the grade 8 operational geography subject-specific questions are existing trend questions. These questions were last administered as part of the 2010 geography assessment.

U.S. History — the grade 8 operational U.S. history subject-specific questions are existing trend questions. These questions were last administered as part of the 2010 U.S. history assessment.

Science — the grades 4, 8, and 12 pilot science subject-specific questions consist of trend and newly developed questions. The new questions were pre-tested in cognitive interviews (also referred to as cog

<sup>2</sup> The 2014 Sampling Memo (dated 3-25-2013) contains information related to the grades 4 and 12 social studies assessments, which were subsequently dropped.

labs) in 2012. Refer to appendix C for the reports associated with the science cog labs and for a list of the new questions contained in the science pilot questionnaires (student, teacher, and school).

Membership of the committees that helped define the cognitive and survey questions pertaining to the 2014 subjects in Wave 1 is provided in this document, in appendix A. All of the assessments covered by Wave 1 will be administered by paper-and-pencil.

### **Teacher Questionnaires**

Teacher questionnaires are comprised of multiple sections, which include:

Background, Education, and Training (BET); also referred to as the teacher core) — the operational BET questions are trend or previously piloted questions. Science pilot consists of trend and pilot questions.

Classroom Organization and Instruction (COI) — the operational COI questions in the social studies subjects are trend questions. The COI section for the science pilot questionnaires contains both existing trend and new questions.

All teacher questionnaires will be completed online in 2014. If a grade 8 teacher teaches both social studies and science, the online questionnaire system will administer the appropriate BET questions and both COI sections to that teacher.

### **School Questionnaires**

School questionnaires are comprised of multiple sections, which include:

School Characteristics and Policies (SCP); also referred to as the school core) – One version of SCP questions will be given at each grade. The SCP questions are comprised of trend or previously piloted questions.

Social Studies (Civics, Geography, and U.S. History) – The operational school questions in the social studies subjects are trend questions that were administered in the 2010 assessments.

Science – The pilot science questionnaires contain both existing trend and new questions.

Charter School – Charter school questions are comprised of trend questions that were administered in previous assessments. Note that the charter school section is only completed if the school is a charter school.

All 2014 school questionnaires will be completed online. Table 2 depicts the composition of the 2014 school questionnaires.

<b>Table 2: School Background Questionnaires for the NAEP 2014 Assessments</b>				
Grade	Section 1	Section 2	Section 3	Section 4
<b>4</b>	SCP	Science <sub>Pilot</sub>	Charter School	
<b>8</b>	SCP	Social Studies	Science <sub>Pilot</sub>	Charter School
<b>12</b>	SCP	Science <sub>Pilot</sub>	Charter School	

Note: SCP – School Characteristics and Policies

## 5. Burden Information for 2014 Wave 1

The nature of NAEP is that samples of students alternate from a relatively low volume in national-level only administration years to a substantial volume increase in state-level administration years that include one or more assessments that support the reporting of results by state and certain urban districts. In 2014, NAEP will conduct national-level only assessments, so the estimated burden is much lower than in 2013 NAEP. The total combined burden for the 2014 Wave 1 materials is provided in table 3.

**Table 3: Total Burden for Wave 1**

<b>Respondent Category</b>	<b>Number of Respondents</b>	<b>Total Burden Hours</b>
Students	30,500	12,708
Teachers	2,894	988
Schools	533	267
<b>Total</b>	<b>33,927</b>	<b>13,963</b>

Note: School coordinator activities, such as e-filing and pre-assessment activities, along with their related burden, will be included in the Wave 2 submittal.

The burden includes the following categories:

Students – Students in eighth grade complete civics, geography, or U.S. history assessment booklets that contain two 25-minute cognitive blocks, and two survey question sections that require a total of 15 minutes to complete. The social studies subjects are all paper-based assessments.

The science pilots associated with Wave 1 will be administered in paper-and-pencil and hands-on tasks (HOTs) formats. The paper-and-pencil version contains two 25-minute cognitive blocks. The science hands-on tasks have students work with lab materials and other equipment to perform experiments. These hands-on tasks may require a total of an additional 15 minutes of student time for the cognitive portion of the assessment. The paper-and-pencil and HOTs versions will also include survey questionnaire sections.

Additional student burden is included for time to read directions and distribute test booklets. For paper-and-pencil and HOTs assessments, this additional burden is estimated at 10 minutes, thus the total burden for students is 25 minutes<sup>3</sup> for the paper-and-pencil and HOTs assessments.

Appendix B includes a sample parental notification letter regarding NAEP. The letter will be adapted for each grade/subject combination and the school principal may edit it. However, the information regarding confidentiality and the appropriate law reference will remain unchanged.

Teachers – In 2014, teachers will be asked to complete questions about their teaching background, education, training, and classroom organization and instruction. At fourth-grade, only science teachers will complete teacher questionnaires and this burden is estimated at 20 minutes. The teachers of eighth-grade students participating in the NAEP civics, geography, U.S. history, or science assessments will complete questionnaires. The eighth-grade teacher burden is estimated to be 20 minutes for most teachers, and 30 minutes for a small percent (5%) who may teach both social studies and science. Note there is no teacher questionnaire for the teachers of students taking the twelfth-grade assessments.

<sup>3</sup> The 25-minute burden calculation is comprised of 15 minutes for survey questions and 10 minutes for set up and directions. The time for the cognitive sections is not part of the burden calculation.

Schools – The school administrators in the sampled schools will be asked to complete a school questionnaire. The school questionnaire burden is estimated to be 30 minutes at all three grades.

**Table 4: Wave 1 Questionnaires - Per Respondent Burden Time**

Respondent Category	Time per Respondent
<b>Grade 4</b>	
Student Core + Science (paper and pencil, including HOTs)	15 minutes
Student Directions and Set-up	10 minutes
Teacher Questionnaire	20 minutes
School Questionnaire	30 minutes
<b>Grade 8</b>	
Student Core + Civics	15 minutes
Student Core + Geography	15 minutes
Student Core + U.S. History	15 minutes
Student Core + Science (paper and pencil, including HOTs)	15 minutes
Student Directions and Set-up	10 minutes
Teacher Questionnaire (single subject)	20 minutes
Teacher Questionnaire (social studies and science)	30 minutes
School Questionnaire	30 minutes
<b>Grade 12</b>	
Student Core + Science (paper and pencil, including HOTs)	15 minutes
Student Directions and Set-up	10 minutes
School Questionnaire	30 minutes

**Table 5: Estimated Burden for NAEP 2014 Questionnaires Contained in This Submittal (Wave 1).**

Subjects	# of Students	Avg. time per respondent [minutes]	Student Burden (hours)	# of Teachers	Avg. time per respondent [minutes]	Teacher Burden (hours)	# of Schools	Avg. time per respondent [minutes]	School Burden (hours)
<b>4th Grade</b>									
Science pilot (P&P, HOTs)	1,500	25	625	152	20	51	38	30	19
<b>8th Grade</b>									
Operational (US history, civics, geography); Pilot (science P&P, science HOTs)	27,500	25	11,458	2,742	20 or 30 <sup>1</sup>	937	457	30	229
<b>12th Grade</b>									
Science pilot (P&P, HOTs)	1,500	25	625	-	-	-	38	30	19
<b>Total</b>	<b>30,500</b>	<b>N/A</b>	<b>12,708</b>	<b>2,894</b>	<b>N/A</b>	<b>988</b>	<b>533</b>	<b>N/A</b>	<b>267</b>
<b>Total number of respondents:</b>				<b>33,927</b>	<b>Total burden hours:</b>				<b>13,963</b>

Note: Due to rounding, some totals may differ slightly from sum of subtotals.

<sup>1</sup> It is estimated that 95% of the grade 8 teachers teach one subject and, thus, have 20 minutes of burden, while about 5% of the grade 8 teachers teach both social studies and science and, thus, have 30 minutes of burden.

## 6. How, by Whom, and for What Purpose the Data Will Be Used

The purpose of NAEP is to collect and report assessment data on student achievement in the subject areas assessed for use in monitoring educational progress. In addition to reporting overall results of student performance and achievement, NAEP also reports student performance results for various subgroups of students and on various educational factors. The Governing Board sets guidance for what is asked in the questions. NCES is responsible for developing the questions and for selecting the final set of questions. The questions are designed to (a) provide the information for disaggregating data according to categories specified in the legislation,<sup>4</sup> (b) provide contextual information that is subject specific (e.g. reading, mathematics) and has an impact and known relationship to student achievement, and (c) provide policy-relevant information specified by the Governing Board.

In the original request to OMB for system clearance, NCES requested approval of the data-gathering instruments to be used in the 2014–2016 national- and state-level NAEP assessments. An expanded description of the purposes of the data is provided in the system clearance submittal.

## 7. Estimates of Costs to the Federal Government

Table 6 provides estimates for the Wave 1 portion of the 2014 administrations.

**Table 6: Administration Cost Estimates (Wave 1 subjects)**

<b>Activity</b>	<b>Provider</b>	<b>Estimated Cost</b>
Printing, packaging, and distribution phases of the administration including: <ul style="list-style-type: none"><li>• prepare and package the assessment and all auxiliary materials</li><li>• distribute assessment booklets and materials to the test administrators for each school</li></ul>	Pearson (the Materials, Distribution, Processing and Scoring [MDPS] contractor)	\$1.3 million
Field administration including: <ul style="list-style-type: none"><li>• administration of assessments data collection from the field</li></ul>	Westat (the Data Collection contractor and the NAEP Support and Service Center [NSSC] contractor)	\$1.6 million
<b>Totals</b>		<b>\$2.9 million</b>

<sup>4</sup> Education Sciences Reform Act of 2002 (ESRA), National Assessment of Educational Progress (20 USC § 9622).  
2014 Wave 1 Supporting Statement: Appendix A



## Appendix A: Committee Lists

### NAEP Civics Standing Committee

<b>Name</b>	<b>Affiliation</b>
Patricia Avery	University of Minnesota, Minneapolis, MN
Steve Camicia	Utah State University, Logan, UT
Michael Fischer	Consultant, Encino, CA
Daphne Greene	Doe Elementary School, Mountain City, TN
Lewis Huffman	South Carolina Department of Education
Peter Levine	Tufts University, Medford/Somerville, MA
Kimberly Eggborn	Howard County Public Schools, Ellicott City, MD
Ayo Magwood	Cesar Chavez Public Charter School, Washington, DC
Rick Miller	Princeton Regional Schools, Princeton, NJ
Richard Ochoa	Alta High School, Sandy, UT
Clarissa Peterson	DePauw University, Greencastle, IN
Joseph Stewart, Jr.	Clemson University, Clemson, SC
Marcie Taylor-Thoma	Maryland State Department of Education, Baltimore, MD
Kim Tetzlaff	Banyan Elementary School, Newbury Park, CA
Jackie Viana	Hialeah Gardens Middle School, Miami, FL

### NAEP Geography Standing Committee

<b>Name</b>	<b>Affiliation</b>
Sarah Bednarz	Texas A&M University, College Station, TX
Osa Brand	National Council for Geographic Education, Washington, DC
Karen Thomas-Brown	University of Michigan–Dearborn, Dearborn, MI
Charlie Fitzpatrick	ESRI Schools, Arlington, VA
Donna Fontaine	Westside Elementary School, Smithfield, VA
Paul Gray	Russellville High School, Russellville, AR
Harry Hanna	Frederick County Public School, Walkersville, MD
Briavel Holcomb	Rutgers University, New Brunswick, NJ
Niem Huynh	Association of American Geographers, Washington, DC
Lauren Mitterman	Gibraltar Middle School, Fish Creek, WI

David Palmer	Eaglecrest High School, Centennial, CO
Harris Payne	Omaha Public Schools, Omaha, NE
Joe Stoltman	Western Michigan University, Kalamazoo, MI
Kelly Swanson	Johnson Senior High, St. Paul, MN
Fred Walk	Illinois State University, Normal, IL
Sonja Yow	Eastern Kentucky University, Richmond, KY

### **NAEP Science Standing Committee**

<b>Name</b>	<b>Affiliation</b>
Alicia Cristina Alonzo	Michigan State University, East Lansing, MI
Carlos Ayala	Sonoma State University, Rohnert Park, CA
Mary Thandi Buthelezi	Wheaton College, Wheaton, IL
Susan Craft	Hanahan High School, Hanahan, SC
George Deboer Washington, DC	American Association for the Advancement of Science,
Alex Decaria	Millersville University, Millersville, PA
Crystal Edwards	Lawrence Township Public Schools, Lawrenceville, NJ
Ibari Igwe	Shrewd Learning, Elkridge, MD
Michele Lombard	Swanson Middle School, Arlington, VA
Ellen Mingione	Delaware Department of Education, Dover, DE
Brett Moulding Ogden, UT	Utah Partnership for Effective Science Teaching and Learning,
Amy Pearlmutter	Littlebrook Elementary School, Princeton, NJ
Steve Semken	Arizona State University, Tempe, AZ
Gerald Wheeler	National Science Teacher Association, Arlington, VA
David White	Consultant, Berlin, VT

### **NAEP U.S. History Standing Committee**

<b>Name</b>	<b>Affiliation</b>
Keith Barton	Indiana University, Bloomington, IN
Konstantin Dierks	Indiana University, Bloomington, IN
Cosby Hunt	Bell Multicultural High School, Washington, DC

Linda Levstik	University of Kentucky, Lexington, KY
Louisa Moffitt	Marist School, Atlanta, GA
Alana Murray	Loiederman Middle School, Silver Spring, MD
Caleb Perkins Olympia, WA	International Education Curriculum, Instruction, & Assessment,
Kim Rasmussen	Auburn Washburn Unified School District, Topeka, KS
Tina Reynolds	Woodfill Elementary School, Fort Thomas, KY
Larry Starr	Nebraska Department of Education, Lincoln, NE
Kathleen Anderson Steeves	National Council for History Education, College Park, MD
Diana Turk	New York University, New York, NY
Rebecca Valbuena	Stanton School, Glendora, CA
Bruce Vansledright	University of Maryland, College Park, MD

## Appendix B: Parent/Guardian Notification Letter

### NAEP (NAEP Assessment Year) PARENT/GUARDIAN NOTIFICATION LETTER

(School Letterhead)

(Insert Date Here)

Dear Parent or Guardian:

We are pleased to notify you that (school name) has been selected to represent schools across the nation by participating in the National Assessment of Educational Progress (NAEP). First administered in 1969, NAEP is the largest nationally representative assessment of what students know and can do in various subject areas. It is administered by the National Center for Education Statistics, within the U.S. Department of Education. NAEP is different from state assessments because it provides a common measure of student achievement across the country. The results of NAEP are released as The Nation's Report Card, which provides information about student achievement to educators, parents, policymakers, and the public.

In our school, the NAEP assessment will be given on (date) in (subject). Your child (may be/has been) selected to take the assessment. In addition to subject area questions, students will be asked some questions about themselves and their educational experience. These questions provide contextual information for the assessment, as well as information that may be related to students' learning. If you would like to view sample subject area and student questions, please visit <http://nationsreportcard.gov/parents.asp>.

It will take about (assessment time) minutes for most students to participate in the assessment. The results are completely confidential (in accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347), and the information provided will be used for statistical purposes only. Your child's grades will not be affected. Your child may be excused from participation for any reason, is not required to complete the assessment, and may skip any question. While NAEP is voluntary, we depend on student participation to provide an accurate measure of student achievement that will inform improvements in education. Your child will represent many other students, so participation is very important. However, if you do not want your child to participate, please notify me in writing by (date).

There is no need to study in preparation for NAEP. We do, however, ask parents to encourage their children to do their best and get plenty of rest the night before the assessment. A brochure that explains what participation in NAEP means for you and your child is available at <http://nces.ed.gov/nationsreportcard/pdf/parents/2012469.pdf>. Should you have questions, please contact me at (telephone number) or at (e-mail address).

We are excited that our school will be participating in NAEP and pleased that your child (may be/has been) selected. We know that (school name)'s students will help us show what our nation's students know and can do.

Sincerely,

School Principal