

# National Assessment Governing Board

## Assessment Development Committee

May 14-15, 2015

### AGENDA

<b>Thursday, May 14</b> <b>Hotel Indigo</b> <b>400 Brown Street</b> <b>Belvedere A</b>		
11:30 am – 3:00 pm	<b>ACTION:</b> Review of Contextual Variables <i>Committee Discussion</i>	Material sent under separate cover
<b>Friday, May 15</b> <b>The Commons</b> <b>300 Washington Street</b> <b>Xenia Miller Room</b>		
10:15 – 10:20 am	Welcome and Agenda Overview <i>Shannon Garrison, Chair</i>	
10:20 – 11:30 am	Review of Contextual Variables (continued) <i>Committee Discussion</i>	Material sent under separate cover
11:30 am – 12:15 pm	Update on the 2014 NAEP Technology and Engineering (TEL) Reporting <i>Arnold Goldstein, NCES</i>	Attachment A
12:15 – 12:30 pm	NAEP Item Review Schedule <i>Mary Crovo, Governing Board Staff</i>	Attachment B



## **NAEP Technology and Engineering Literacy (TEL)**

### **Assessment Update**

In the spring of 2014, the first-ever NAEP TEL assessment was administered via computer to a nationally representative sample of 8<sup>th</sup> graders. The assessment was designed to gauge how well students can apply their understanding of technology and engineering principles to real-life situations. Results will be available at the national level only and will be released as The Nation's Report Card. The NAEP TEL Framework, which guides development activities, focuses on the level of knowledge and competencies about technology and engineering needed by all students and citizens to function in a technological society.

TEL measured students' knowledge and skills in three interconnected areas: Technology and Society, Design and Systems, and Information and Communication Technology. There are three cross-cutting practices as well: Understanding Technological Principles, Developing Solutions and Achieving Goals, and Communicating and Collaborating. An innovative component of the assessment is the incorporation of interactive scenario-based tasks. These tasks allowed the collection of a wide array of information on student performance, including observable data captured as students interacted with the TEL tasks. This innovation allows NAEP to expand TEL reporting beyond the traditional NAEP scores by including students' problem-solving strategies and processes.

In this session, NCES will present to the Assessment Development Committee an overview and update of ongoing NAEP TEL data analysis and reporting activities. At the previous Board meeting, the outline for the web-based report was discussed, and adjustments have been made to the site plans. Specific changes include highlighting educationally-relevant headlines related to key findings in the results. The site architecture then encourages the user to dig further into the TEL domain by exploring interactive, multi-media presentations of each released task, each with prominent access to take the task online. As users build their understanding of the TEL construct, they will have further opportunities to explore contextual factors and indices, as well as details about the assessment design, framework criteria, sample design, and features of the assessment delivery system.

Included in this ADC session will be a timeline of assessment activities and a preview of additional ongoing data analysis efforts.



**Assessment Development Committee  
Item Review Schedule  
April 2015 – August 2015  
(Updated 4/14/15)**

<b>Review Package to Board</b>	<b>Board Comments to NCES</b>	<b>Survey/Cognitive</b>	<b>Review Task</b>	<b>Approx Number Items</b>	<b>Status</b>
4/30/15	5/22/15	Survey	2017 Reading (4, 8) Pilot	130-150	For review at May Board mtg.
4/30/15	5/22/15	Survey	2017 Math (4, 8) Pilot	130-150	For review at May Board mtg.
4/30/15	5/22/15	Survey	2017 Writing (8, 12) Pilot	130-150	For review at May Board mtg.
5/7/15	5/28/15	Cognitive	2018 US History, Civics, Geography (8, 12) Pilot Concept Sketches	12 Sketches	
7/23/15	8/14/15	Cognitive	2017 Writing (8, 12) Pilot	20	
7/23/15	8/14/15	Cognitive	2017 Math (4, 8) Pilot	300	
7/23/15	8/14/15	Survey	2018 Social Studies (US History, Civics, Geography) Operational	95	
7/23/15	8/14/15	Cognitive	2017 Reading (4, 8) Pilot	50-55	