

COMMITTEE ON STANDARDS, DESIGN AND METHODOLOGY AGENDA



August 8, 2024

2:45 – 5:15pm EST

Braemore Room

2:45 – 2:50 pm

Welcome and Overview of Agenda

Suzanne Lane, Chair

2:50 – 3:40 pm

**Feedback on the NAEP Achievement Levels
Validity Argument Second Draft**

Suzanne Lane

Becky Dvorak, Assistant Director for Psychometrics

Anne Davidson, EdMetric (under contract with MSG)

Attachment A

3:40 – 3:45 pm

Transition to Closed Session

3:45 – 4:10 pm

Update on Automated Scoring Activities (CLOSED)

Dana Kelly, National Center for Education Statistics

Attachment B

4:10 – 5:15 pm

Legislative Roles and Responsibilities Discussion

Suzanne Lane

Feedback on the NAEP Achievement Levels Validity Argument Second Draft

Open Session, COSDAM Meeting
August 8, 2024

Goal

The purpose of this session is to provide the Committee on Standards, Design and Methodology (COSDAM) a final opportunity to offer feedback on the NAEP Achievement Levels Validity Argument before finalization.

Overview

Suzanne Lane (Chair) and Becky Dvorak (Assistant Director for Psychometrics) will summarize the content of the Validity Argument. They will provide an overview of feedback received on a first draft from COSDAM members, Board staff, National Center for Education (NCES) staff, and external reviewers and note how the feedback was addressed for the second draft. Governing Board members will have the opportunity to offer recommendations to consider when finalizing the report. Staff from the Board's technical services contractor, Manhattan Strategies Group (MSG) and subcontractor EdMetric, who developed the Validity Argument will be in attendance to answer questions and receive feedback.

A second draft of the NAEP Achievement Levels Validity Argument will be delivered to COSDAM members for review in advance of the August meeting.

Once final feedback is addressed and incorporated following the meeting, the Validity Argument will be finalized and will be posted to the Board website. It is expected that updated versions of the Validity Argument will be developed in the future once it is determined by COSDAM that enough additional validity evidence has been collected.

Background

The NAEP Achievement Levels Validity Argument is being developed as one of the activities in response to recommendations by the National Academies of Sciences, Engineering, and Medicine (NASEM) in their [evaluation of the NAEP Achievement Levels](#) published in 2017. This validity argument was conceptualized by COSDAM to fulfill the task identified in the [Achievement Levels Work Plan](#), adopted by the Board in 2020 in response to the NASEM evaluation, calling to "Collect and document validity evidence to support intended interpretations and uses of NAEP achievement levels".

Lane presented a plan for achieving the committee's goals for improving NAEP Achievement Levels communications at the May 2023 COSDAM meeting. This plan included the need to develop a validity argument document summarizing appropriate and inappropriate claims based on the evidence, and sources of achievement level

validity evidence to support these claims. In August of 2023 COSDAM members were offered an initial opportunity to provide input on a draft outline of a validity argument, and the Board's technical services contractor began developing the report in December of 2023. COSDAM has had opportunities to weigh in at various points along the way. The August meeting will provide the opportunity to offer input on a near-final draft.

Update on Automated Scoring Activities

Closed Session, COSDAM Meeting
August 8, 2024

Goal

The purpose of this session is to provide the Committee on Standards, Design and Methodology (COSDAM) updates on recent activities regarding studies into the use of automated scoring, using artificial intelligence (AI), for constructed response items on the National Assessment of Educational Progress (NAEP).

Overview

Staff from the National Center for Education Statistics (NCES) will provide a brief update on ongoing activities to investigate the feasibility of using automated scoring for constructed-response items on NAEP, including: 1) a dress rehearsal for reading and math grades 4 and 8 using 2024 data, and 2) plans for further investigating equity in automated scoring based on feedback offered by COSDAM in November of 2023. This session will focus on the planned analyses; NCES will follow-up with findings at a future meeting.

Background

COSDAM has received ongoing updates on automated scoring efforts undertaken by NCES over the past couple years, including:

- In May of 2022, NCES presented on outcomes of a contest that examined the feasibility of using automated scoring for NAEP constructed-response reading items. More information is available in [Attachment A of the May 2022 COSDAM materials](#).
- In November of 2023, NCES presented outcomes of a similar context examining the feasibility of using automated scoring for NAEP constructed response math items. More information is available in [Attachment A of the August 2023 COSDAM materials](#).

The general findings of the scoring contests showed promise for future use of automated scoring of reading and math constructed-response items, though there were still challenges to overcome, particularly for math.

At the November 2023 COSDAM meeting, COSDAM members offered recommendations for additional analyses to examine the equity of automated scoring processes. NCES is incorporating this feedback into new work.