



Student Academic Achievement Presentation:

Analysis of Student Artifacts in English Language Arts (ELA), Mathematics, and Science

November 17, 2025

Student Work Collected:



43 artifacts submitted for ELA



42 artifacts submitted for math



40 artifacts submitted for science



ELA collected from grades 1, 3, 7, and 10



Math collected from grades K, 4, 6, and Alg I



Science collected from grades 2, 5, 8 and 10 (Biology)

Content:

- Is the work aligned to standards?
- Is the work on grade level?

Context:

- How is the student demonstrating *learning?*
- Test? Real world? Classroom specific? Meaningful writing?

Cognitive Demand:

 What is the *rigor* or Depth of Knowledge (DOK)?

SNAPSHOT OF STUDENT WORK

English Language Arts (ELA) collected from grades 1, 3, 7, & 10

Science collected from grades 2, 5, 8, & BIO

Math collected from grades K, 4, 6, & ALG I



artifacts submitted for science

artifacts submitted for math

Percentage of student work aligned to grade level standards:

ELA, Math, and Science Standard Alignment 100% 76% 80% 61% 60% 37%_39% 39% 40% 20% 13% 12% 12% 8% 2% 0% Aligned to Standard Partially aligned to Not aligned Aligned to standard ■FIStandard Math different than stated Science

Content Calibration

Celebrations

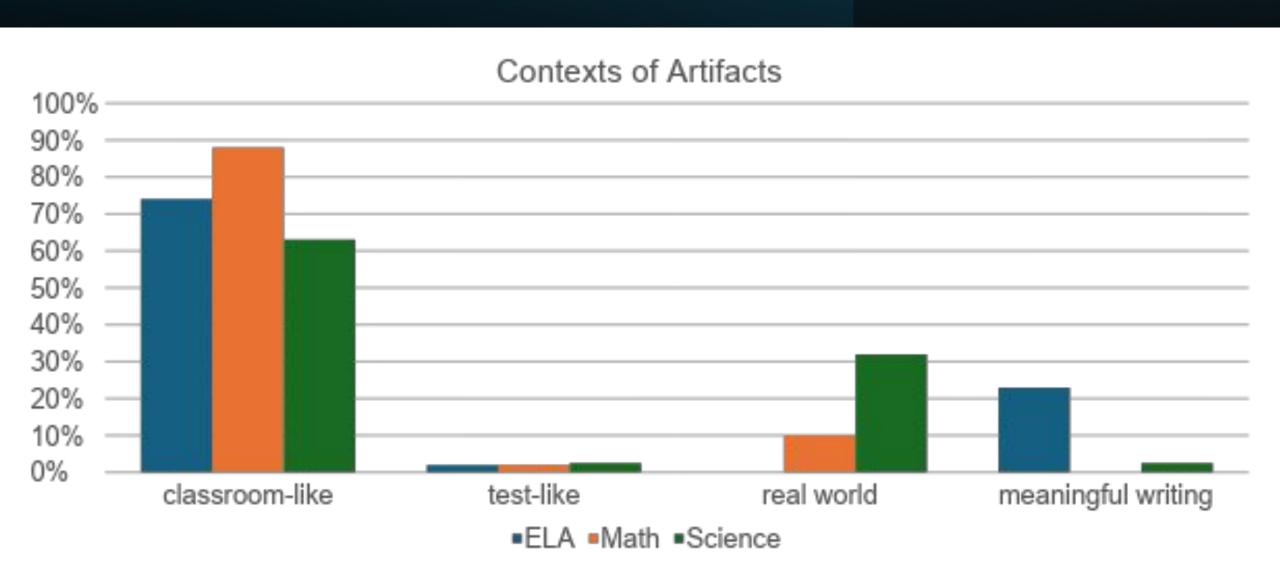
• Math (61%) were at least partially aligned to grade level standards.

• Student work in ELA & Math is technically on-level.

Opportunities for Growth

- Science had the highest percentage not aligned, mostly due to the context required by the standard.
- Student work is not at the depth, complexity, & authenticity needed.
- ELA samples showed inconsistency in definitions of mastery across all grades, but greatest at middle school.

Contexts of Student Work:



Context of Artifacts



Science had the greatest number of artifacts (32%) reflecting real-world, authentic contexts.



Mathematics had few (10%) samples of student work that represented authentic scenarios based on students' real-life experiences, and no samples that required meaningful writing.

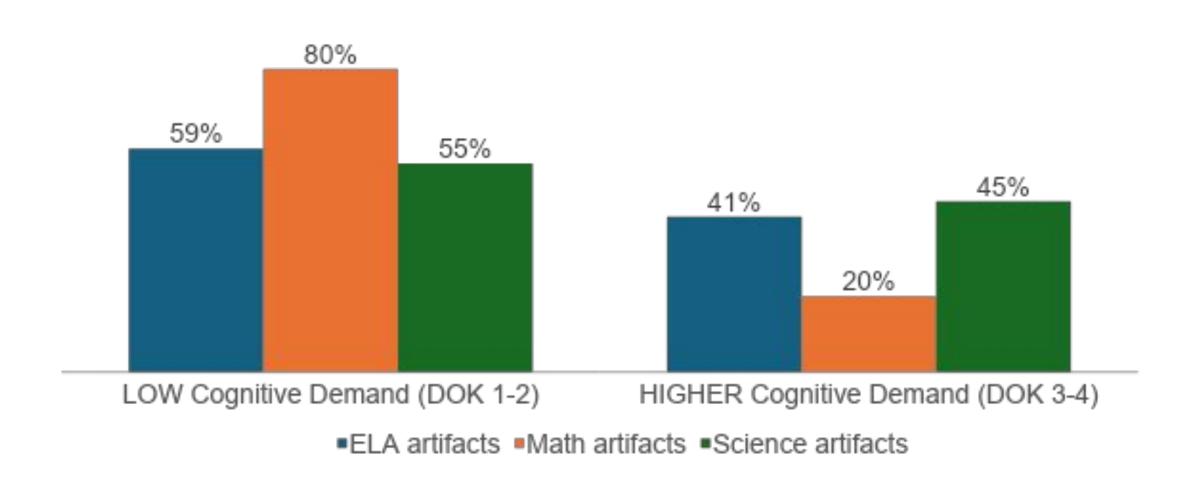


ELA had the highest number of artifacts requiring meaningful writing (23%), but no samples of work that would be considered authentic and real-world.

Webb's Depth of Knowledge (DOK)Levels

Level One Activities	Level Two Activities	Level Three Activities	Level Four Activities
Recall elements and details of story structure, such as sequence of	Identify and summarize the major events in a narrative.	Support ideas with details and examples.	Conduct a project that requires specifying a problem, designing and
events, character, plot and setting. Conduct basic mathematical	Use context cues to identify the meaning of unfamiliar words.	Use voice appropriate to the purpose and audience.	conducting an experiment, analyzing its data, and reporting results/ solutions.
calculations. Label locations on a map.	Solve routine multiple-step problems.	Identify research questions and design investigations for a	Apply mathematical model to illuminate a problem or situation.
Represent in words or diagrams a	Describe the cause/effect of a particular event.	scientific problem.	Analyze and synthesize
scientific concept or relationship.	Identify patterns in events or behavior.	Develop a scientific model for a complex situation.	information from multiple sources. Describe and illustrate how common
Perform routine procedures like measuring length or using punctuation marks correctly.	Formulate a routine problem given data and conditions.	Determine the author's purpose and describe how it affects the interpretation of a reading	themes are found across texts from different cultures.
Describe the features of a place or people.	Organize, represent and interpret data.	selection. Apply a concept in other contexts.	Design a mathematical model to inform and solve a practical or abstract situation.

Cognitive Demand of Student Work:



Cognitive Demand of Artifacts

The cognitive demand of student work improved over last year, but was still lowest in mathematics.

The cognitive demand of ELA was higher in secondary, proportionally, than at elementary.

The science samples had higher cognitive demand, as well, but were higher in elementary than in secondary.

Continuous Improvement:

Exemplar Lessons and Student Work for Each Essential Standard in the Curriculum

Six Schools ½ day training to Analyze Work Samples and Work with Teacher Teams for Better Alignment

Purchased new ELA, Math & Science curriculum for middle and high schools in the last two years.

Continuous Monitoring and Feedback. Spring 2026