The Power of Performance Assessment - Math

[MDE Math Crosswalks](https://www.michigan.gov/mde/0,4615,7-140-22709_70117-364403--,00.html) - Claim 3: Communicating Reasoning Students can clearly and precisely construct viable arguments to support their own reasoning and to critique the reasoning of others.

[Michigan Math Standards](https://www.michigan.gov/documents/mde/K-12_MI_Math_Standards_REV_470033_7_550413_7.pdf) - Construct viable arguments and critique the reasoning of others.

Principles to Actions: Ensuring Mathematical Success for All (NCTM, 2014) - **Assessment.** An excellent mathematics program ensures that assessment is an integral part of instruction, provides evidence of proficiency with important mathematics content and practices, includes a variety of strategies and data sources, and informs feedback to students, instructional decisions, and program improvement.

Ann Arbor Public Schools Rubric for Math Claim 3 Tasks

|  |  |  |
| --- | --- | --- |
| 1 point | Make a conjecture | Correct or incorrect conjecture |
| 1 point | Use of math vocabulary | Communicate precisely using math vocabulary appropriately |
| 2 points | Provide evidence to support your conjecture | Formulas, pictures, properties |
| 2 points | Clear and complete mathematical reasoning | Connect the evidence to the problem |

**Sources of Assessment Tasks:**

[**Smarter Balanced Assessment Consortium**](https://sampleitems.smarterbalanced.org/BrowseItems?Claim=MATH3&Subject=MATH) **- Short answer Math sample items**

[San Francisco Unified School District Units of Instruction](http://www.sfusdmath.org/accessing-core-curriculum-unit-plans.html) - Milestone activities, unit culmination

[Balanced Assessment Project](https://hgse.balancedassessment.org/), tasks for K-12 math instruction, some available from Corwin and Teachers College Press Publishers

[Balanced Assessment series](https://www.amazon.com/s?k=Balanced+Assessment+Dale+Seymour&i=stripbooks&ref=nb_sb_noss), Dale Seymour Publishing, 1999-2000, tasks, sample student work, 4 levels of student performance highlighted

[Mathematics Assessment Project](https://www.map.mathshell.org/) (MAPS tasks) - a variety of tasks and lessons with open-ended questions for math assessment

The citations to sample repositories of performance assessments are provided to provide examples of existing performance assessments in the subject area. WS2 MSTC 2020 presenters are not prioritizing the use of, or expressly endorsing, these sites and repositories over others.