

Overview of Assessment

Both project-based learning (PBL) and the Common Core State Standards (CCSS) assume that teachers will use multiple assessments, including tests and performance rubrics. You may choose your own assessments, but this project also includes built-in assessments, suggestions for making your own assessments, as well as links to the [Khan Academy](#) geometry assessments, geometry assessments on [Curriki](#), and other resources.

In addition to the core content of this project, it is designed to teach and assess 21st century skills, mathematical practices, vocabulary, and end-of-project presentations and products. This project has a rubric that may be used for assessment. You may also choose to assess the two critical 21st century skills, teamwork and presentations, using the [Teamwork Rubric](#) or the [Presentation and Performance Rubric](#).

Project Rubrics versus Individual Skills Rubrics

The individual rubrics (Mathematical Practices, Teamwork, Presentation and Performance) and the Project Rubric can be used separately or in tandem. This may vary with the project and time of year. For example, early in the academic year, you may wish to use the Teamwork or Presentation Rubric separately as a method for training students on a detailed performance rubric. Later in the year, the Project Rubric, which condenses the individual rubrics and provides a holistic assessment of the overall project, may be more appropriate. It will be helpful to review all rubrics before starting the project to find the best combination for your students.

The Mathematical Practices Rubric

The [Mathematical Practices Rubric](#) is key to project success and student learning. The CCSS for Mathematics include eight mathematical practices that accompany the content standards. Use of the rubric is included in the [Suggested Pacing Guide](#). It will be helpful to highlight the Mathematical Practices Rubric early in the course and before the project begins.

Encouraging Critical Thinking and Creativity

With the exception of the Mathematical Practices Rubric, all the rubrics for this project contain a Breakthrough option. This is designed to capture exceptional performance, unusual insights, or creative thinking. It is not the 'A' part of the rubric; it signifies that the student has gone beyond the standards and achieved an unexpected result.

Grading and Rubrics

An important note about grading: Below each element and section of the rubrics, you can locate a point scale that allows you to transfer the rubric evaluations into a point-based grade book. Since grading varies among teachers, the suggested point scales can be modified to meet your classroom, school, or project guidelines.

Using Additional Rubrics

You may also choose to use your own existing rubrics, develop additional assessments, or change the rubric language. Students can also help design language to help evaluate the presentation.