

| Common Core State Standards for Mathematics | | |
|--|---|---|
| Domain: Geometry | | |
| Geometric Constructions (make geometric constructions) (G.CO.12, 13) | | |
| High School | | |
| Score 4.0 | In addition to Score 3.0, in-depth inferences and applications that go beyond instruction to the standard. The student will: | Example Activities |
| | <ul style="list-style-type: none"> construct a tangent to a circle (G.CO.12) construct a parallelogram, rectangle, rhombus and square (G.CO.12) | |
| 3.5 | In addition to score 3.0 performance, in-depth inferences and applications with partial success. | |
| Score 3.0 | <p>The student will:</p> <ul style="list-style-type: none"> construct an equilateral triangle, a square and a regular hexagon inscribed in a circle (G.CO.13) <p>The student exhibits no major errors or omissions.</p> | Students will be placed in groups of three. Each student will be assigned a type of construction. One student will construct equilateral triangles, one squares and the last will construct regular hexagons inscribed in a circle. Students will use formal construction methods to create their assigned shapes. Each time the group creates a shape they must explain to their team members how they constructed the specific shape. After three constructions in the group the students will be re-grouped by like shape. At this group the students will collaborate to write a process for constructing their particular shape. This written explanation will be submitted to the teacher for feedback. |
| 2.5 | No major errors or omissions regarding 2.0 content and partial knowledge of the 3.0 content | |
| Score 2.0 | <p>There are no major errors or omissions regarding the simpler details and processes as the student will:</p> <ul style="list-style-type: none"> recognize or recall specific vocabulary, such as: <ul style="list-style-type: none"> equilateral triangle, square, regular hexagon perform basic processes, such as: <ul style="list-style-type: none"> make formal constructions with a variety of tools and methods (e.g., compass, straightedge, string, reflective devices, paper folding, software) (G.CO.12) <p>However, the student exhibits major errors or omissions regarding the more complex ideas and processes.</p> | <p>Constructions:</p> <ul style="list-style-type: none"> copying a segment copying an angle bisecting a segment bisecting an angle perpendicular lines perpendicular bisector of a line segment a line parallel to a given line through a point not on a given line |
| 1.5 | Partial knowledge of the 2.0 content but major errors or omissions regarding the 3.0 content | |
| Score 1.0 | With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes. | |
| 0.5 | With help, a partial understanding of the 2.0 content but not the 3.0 content | |
| Score 0.0 | Even with help, no understanding or skill demonstrated. | |