

Collection of Evidence

Geometry Unit: Constructions

Long-term and Supporting Learning Targets:

I am able to use a variety of tools and methods to construct basic geometric figures.

I can...

- Make formal geometric constructions with a variety of tools and methods
 - *Tools and methods could include but not limited to the following: compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.*
 - *Formal Geometric Constructions should include: Copying a segment; copying an angle; bisecting a segment; bisecting an angle; constructing perpendicular lines, including the perpendicular bisector of a line segment; and constructing a line parallel to a given line through a point not on the line.*
- Construct points of concurrency (Centroid, Incenter, Circumcenter and Orthocenter) of a triangle and construct inscribed and circumscribed circles of a triangle.
- Construct an equilateral triangle, a square, and a regular hexagon inscribed in a circle.

Constructions Notebook

In order to assess the level of proficiency on the above learning target, each student will keep a constructions notebook.

For each construction, include two components.

1. The actual construction with the completed figure(s) and all the construction marks clearly visible.
2. A description of each step required to complete the construction.

Only put one construction per page and label the construction.

Refer to the example on the back.