

## Geometric Construction

Students who study geometric construction are learning to answer the questions

*How could early civilizations produce accurate measures without our technology?*

*What conditions are necessary for two triangles to be congruent?*

*What would it mean for a point to be considered the center of a triangle?*

This unit of study addresses Indiana College & Career Ready Standards as a bridge between sixth and seventh grade standards and future studies in high school geometry.

Gaining skills in this unit will enable students to do everyday tasks like copying a diagram from a magazine or manual, determining cut locations for a piece of drywall, or maximizing space in a storage area. The specific skills in this unit of study include

- copying a segment
- copying an angle
- bisecting a segment
- bisecting an angle
- constructing a parallel line
- constructing a perpendicular line
- copying a triangle through side-side-side congruence
- copying a triangle through angle-side-angle congruence
- copying a triangle through side-angle-side congruence
- constructing a circumcenter
- constructing an incenter
- constructing a centroid