

### **Enduring Understandings**

Constructions are based on properties of geometric figures.

Line and angles relationships represent aspects of the world we inhabit.

### **Essential Questions**

How are geometric properties used in constructions?

How do line relationships affect angle relationships?

### **Indicators**

- 2.7.2.1 define and identify interior, exterior, alternate exterior, alternate interior, and corresponding angles that are formed by two lines cut by a transversal.
- 2.7.2.2 identify and apply congruent and supplementary relationships of angles formed by cutting parallel lines by a transversal.
- 2.7.2.3 use properties of vertical, complementary, and supplementary angles to determine the measure of other angles.
- 2.7.3.1 use a compass and straightedge to construct basic elements of geometric figures including angles, segments, bisectors, and perpendicular lines.
- 2.7.5.1 name corresponding parts of congruent and similar figures.
- 2.7.5.2 define and apply properties of congruent figures.
- 2.7.1.1 identify parallel, perpendicular, intersecting, and skew lines and apply properties of parallelism and perpendicularity to problem situations.