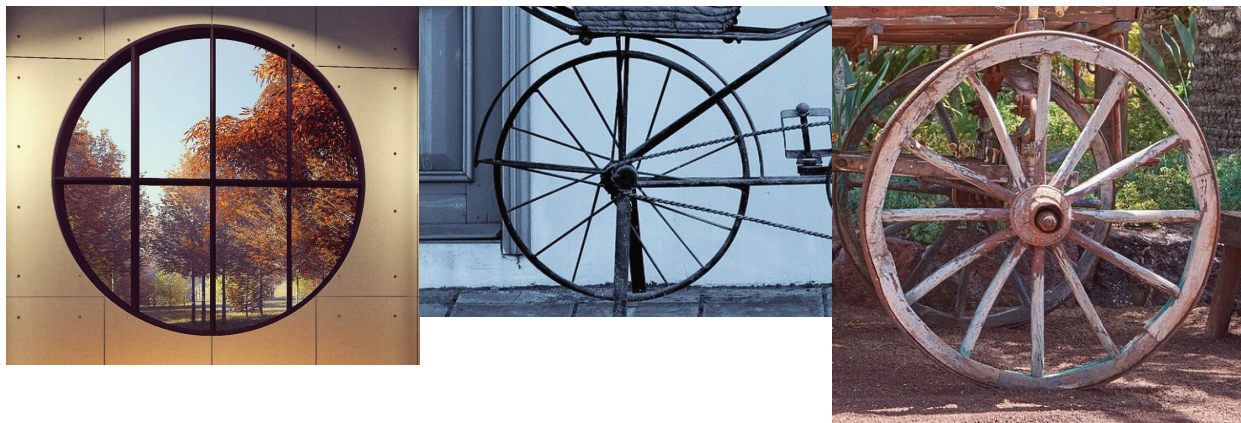# Unit 7 Lesson 1: Lines, Angles, and Curves

1 Notice and Wonder: Lines and Angles (Warm up)

Student Task Statement
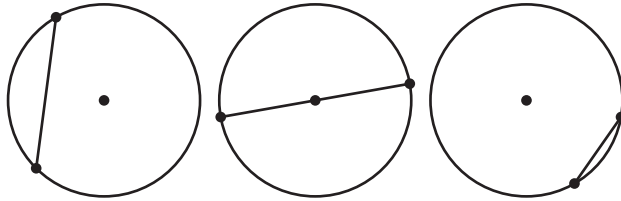
What do you notice? What do you wonder?

2 The Defining Moment
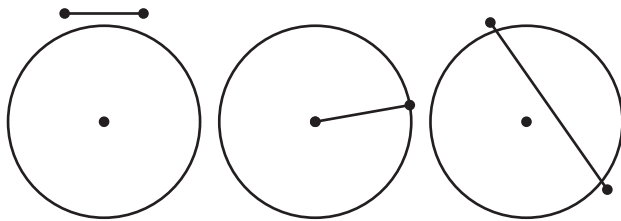
Student Task Statement

1. The images show some line segments that are **chords** and some segments that are not chords.
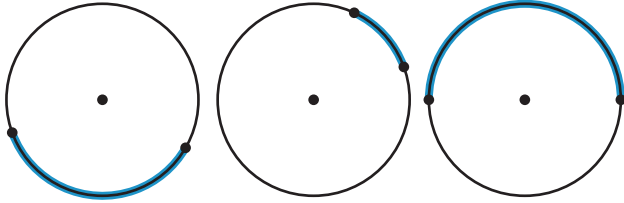
   chords

   not chords

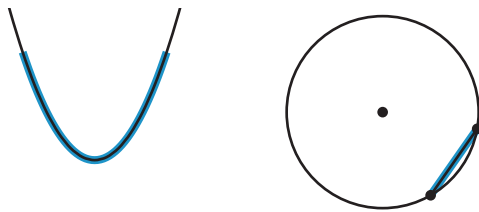   Write a definition of a chord.

2. The images show some highlighted objects that are **arcs**, and some highlighted objects that are not arcs.
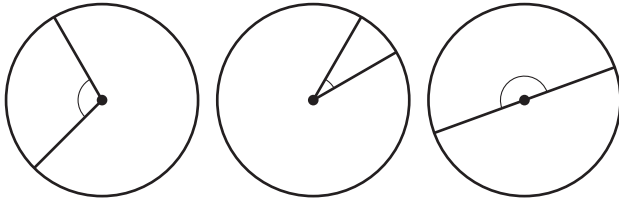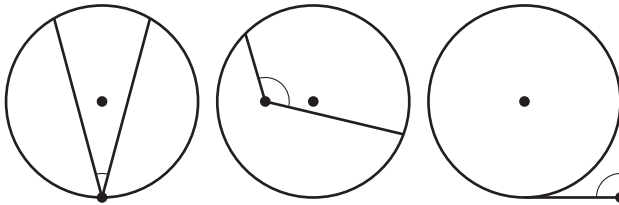
arcs

not arcs

Write a definition of an arc.

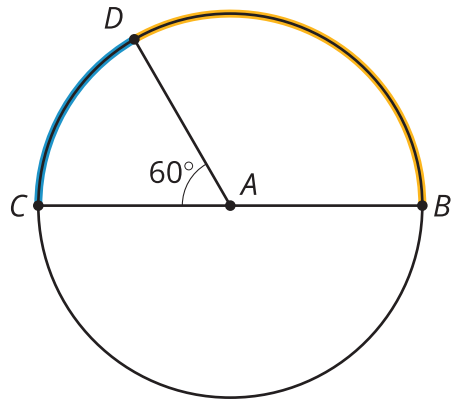3. The images show some angles that are **central angles**, and some that are not.

central angles

not central angles

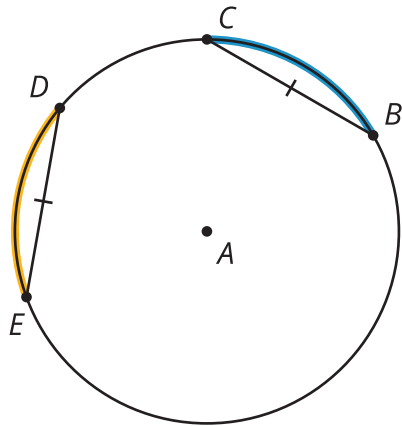Write a definition of a central angle.

3 Arcs, Chords, and Central Angles
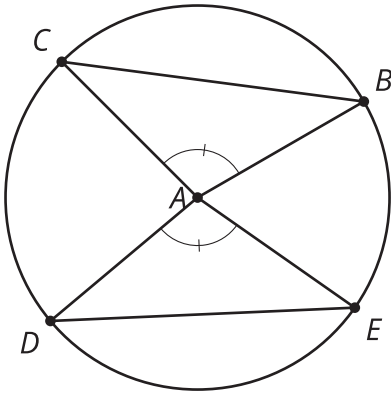
Images for Launch

Student Task Statement

The image shows a circle with 2 congruent chords.

1. Draw the central angles associated with the highlighted arcs from D to E and B to C.

2. How do the measures of the 2 central angles appear to compare? Prove that this observation is true.

3. What does this tell you about the measures of the highlighted arcs from D to E and B to C? Explain your reasoning.

Activity Synthesis

Images for Activity Synthesis