**Supplementary Activities**

**Unit 2 Investigation 1**

**Definition of Congruent Segments**

Open the file: [www.geogebra.org/m/dFADRr9G](http://www.geogebra.org/m/dFADRr9G)

Interact with the applet for a few minutes.  Be sure to move the locations of the black points around each time *before* you drag the slider!   Then answer these questions.

1. What transformations have we learned about thus far?  List them.

2. What transformations did you observe here while interacting with this applet above?  

3. Based on what you observed, how would you describe what it means for segments to be classified as **congruent segments**?

**Demonstrating that two segments are congruent**

Open the file: [www.geogebra.org/m/AD4HKwTZ](http://www.geogebra.org/m/AD4HKwTZ)

In the applet, use the geometry tools within the limited toolbar to demonstrate that segment *f* is congruent to segment *g*. Feel free to place the segments wherever you'd like prior to starting this exercise.

1. Describe what you did.
2. What was the result?