**Supplementary Activity**

**Unit 5 Investigation 1**

Open the file: <http://tube.geogebra.org/material/simple/id/1481065>

This applet was designed to help you see the relationship between the equation of a circle and its graph. Adjust the sliders "*h*", "*k*", and "*r*" (one at a time), and observe what happens to the graph and equation after altering each one. Answer the questions below.

1. What does the parameter "*h*" in the equation of a circle tell you about the graph of the circle?

2. What does the parameter "*k*" in the equation of a circle tell you about the graph of the circle?

3. What does the parameter "*r*" in the equation of a circle tell you about the graph of the circle?

4. Where does the value of "*r*" appear in the equation?