**Infrared Camera**

Experiment with the objects provided to learn how different materials and temperatures affect the brightness of objects in the infrared. What materials are transparent and what materials are opaque? What do you observe about the infrared images of people?

Answer the following questions about infrared light from your observations using the infrared camera and materials available on the front table.

Which cup has the highest temperature? Which has the coolest?

Explain how the infrared camera can be used to determine temperature? What role does temperature play in the brightness of an object in the infrared?

Thought question: How will the images produced by the infrared camera look if the lights are turned off? Make a prediction! What actually happens?

What is the source of the light that we see as visible light?

What is the source of the light that the infrared camera sees?