

## **Constructed Response (CR) Sample Item Grades MS and HS**

1. Your science lab group has been given the following materials/equipment:

- Three 250ml beakers
- Dark potting soil
- Water
- 100 mL graduated cylinder
- Three Celsius thermometers
- Reflector lamp with 200 watt bulb
- Graph paper
- Stop watch

Using the available lab materials/equipment, design an experiment to demonstrate how energy from the sun transfers heat to air, land, and water at different rates. Focus on the procedures and data to be collected.