Name: _____ **Date:** _____ **Class:** _____

Post-Activity Assessment Sample Answers

1. What went well with your ice box?

   Our Popsicle did not melt as much as others.

2. What did not go well?

   Our Popsicle melted more than what we wanted.

3. What changes could be made to improve how well your group's cooler insulates?

   We could have used all our materials, we could have layered our materials differently.

4. Describe the terms:

   a. Convection: The movement caused within a fluid by the tendency of hotter and therefore less dense material to rise, and colder, denser material to sink under the influence of gravity, which consequently results in transfer of heat.

   b. Conduction: The process by which heat or electricity is directly transmitted through a substance when there is a difference of temperature or of electrical potential between adjoining regions, without movement of the material.

   c. Radiation: The emission of energy as electromagnetic waves or as moving subatomic particles, especially high-energy particles that cause ionization.

   d. Insulator: A material or an object that does not easily allow heat, electricity, light, or sound to pass through it

   e. Conductor: A material or an object that allows heat, electricity, light, and/or sound pass through it easily.