

Name: KEY

Date:

## **Graphic Organizer Key**

Use the terms in the word bank to complete the graphic organizer below.





## Check Understanding, **KEY**

**Directions:** Fill in the blanks using the word bank below.

| Word Bank |            |            |            |
|-----------|------------|------------|------------|
| Touch     | Sun        | Less       | Conductors |
| Radiation | Convection | Insulators |            |

Thermal energy can be transferred to matter in several ways: convection, conduction, and **RADIATION.** Thermal energy that is transferred when two objects of different temperatures **TOUCH** is called conduction. Radiation occurs when thermal energy transfers through empty space, such as heat from the **SUN.** An example of **CONVECTION** is when ice cubes melt in a glass of water. A current forms in which heat moves from particles with more heat to particles with **LESS** heat. Materials such as metal and tile are good **CONDUCTORS** because heat can easily transfer through them. **INSULATORS** such as cloth or wood do not conduct heat well.

Directions: Answer the questions below using complete sentences.

- 1. Why does ice cream melt on a hot day? Which type of thermal energy transfer does this melting represent? ? Sample Student Answer: The thermal heat from the Sun is transferred through radiation.
- 2. If two objects have different temperatures, which direction will heat move? For how long? Sample Student Answer: The object with a warmer temperature will transfer the heat to the object with a cooler temperature. This will continue until the temperature of the objects are equal.