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## What Is Heat?

## **Science Words**

Say each word quietly to yourself. Then read the meaning. Read the tip to help you remember.

**heat** [HEET] energy that moves between objects of different temperatures

*Heat* and *hot* begin and end with the same sounds. *Heat* energy moves from something hot to something that is cooler.

conduction [kuhn•DUK•shuhn] movement of heat between two objects that are touching

*Conduction* and *contact* begin with the same sounds. Heat *conduction* takes place when objects are in contact.

**convection** [kuhn•VEK•shuhn] movement of heat within a liquid or a gas

*Convection* and *carries* begin with the same sound. In *convection*, matter carries heat as it moves.

radiation [ray•dee•AY•shuhn] movement of heat without matter to carry it

*Radiation*, *radiate*, and *rays* begin the same way. In *radiation*, energy radiates out like rays and travels until it meets something.

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## What Is Heat?

## **Science Concepts**

Read the Ideas more than once. Do your best to remember them.

- 1. Heat moves from a warmer object to a cooler object.
- 2. Ice cubes melt because heat from the warmer surrounding air transfers, or moves into them.
- 3. As matter gains heat energy, it becomes warmer.
- 4. Conduction occurs when heat moves between things that are touching.
- 5. A spoon in hot soup may soon become warm as heat from the soup moves to the spoon.
- 6. When your feet touch a cold floor, heat travels from your feet to the floor.
- 7. Convection occurs when heat moves within a gas or a liquid, for example when water heats on a stove.
- 8. Radiation occurs when heat travels without moving through matter.
- 9. Heat from the sun travels to Earth by radiation.
- 10. Heat from a fire travels by convection and radiation.