# **Chapter 6 Thermal Energy**

# Section 1 Temperature and Heat

- A. Temperature—related to the average kinetic energy of an object's atoms or molecules
- B. Thermal energy—the sum of the kinetic and potential energy of all the atoms in an object
  - 1. Thermal energy increases as temperature increases.
  - 2. At constant temperature, thermal energy increases if mass increases.
- C. Thermal energy that flows from something at a higher temperature to something at a lower
  - temperature is called heat.
- D. Specific heat—amount of heat needed to raise the temperature of 1 kg of a material
  - by 1 degree C or K
- E. Changes in thermal energy can be calculated as change in thermal energy equals mass times
  - change in temperature times specific heat.
- When heat flows into an object and its temperature rises, the change in temperature is positive.
- When heat flows out of an object and its temperature decreases, the change in temperature
  - is negative.
  - 3. A calorimeter is used to measure specific heat.

# Section 2Transferring Thermal Energy

- A. Conduction—transfer of thermal energy through matter by direct contact of particles
  - 1. Kinetic energy is transferred as particles collide.
  - 2. Solids, particularly metals, are good heat conductors.
- B. The transfer of energy by the motion of heated particles in a fluid is called convection.
  - 1. Convection currents transfer heat from warmer to cooler parts of a fluid.
- Convection currents create rain forests and deserts over different regions of Earth.
- C. Radiation—energy transfer by electromagnetic waves
  - Some radiation is absorbed and some is reflected when it strikes a material.
  - Heat transfer by radiation is faster in a gas than in a liquid or solid.
- D. Most living things control the flow of heat by using special features such as fur, blubber, or scales.
- E. Insulator-material that does not let heat flow through it easily
  - 1. Gases such as air usually make better insulators than liquids or solids.
- A vacuum layer in a thermos is a good insulator because it contains almost no matter to
  - allow conduction or convection to occur.

# Section 3 Using Heat

A. Heating systems—warm homes and buildings

# **Section 1 Temperature And Heat Answer Key**

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#### **Section 1 Temperature And Heat Answer Key:**

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