

Chapter 6- Thermal Energy

I. 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.
 - 1. Calculating change in energy
 $Q = mc\Delta T$ $Q = \text{energy (J)}$ $m = \text{mass (Kg)}$ $\Delta T = \text{Change in temperature}$
 - 2. When heat flows into an object and its temperature rises, the change in temperature is positive.
 - 3. When heat flows out of an object and its temperature decreases, the change in temperature is negative.
 - 4. A calorimeter is used to measure specific heat.

II. Transferring Thermal Energy

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

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