## 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 <u>hear</u>.
- 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 <u>mass</u> times change in temperature times specific heat.
  - 1. Calculating change in energy

#### Q=mcAT Q=energy (J) m= mass(Kg) AT= Change in temperature

- 2. 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.
- A <u>calorimeter</u> is used to measure specific heat.

#### II. Transferring Thermal Energy

- A. Conduction transfer of thermal energy through matter by direct contact of particles
  - 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.
  - Convection currents create <u>rainforests</u> and <u>deserts</u> over different regions of Earth.
- C. Convection currents take place in liquids and air.
- D. <u>Radiation</u>—energy transfer by electromagnetic waves
  - Some radiation is <u>absorbed</u> and some is <u>reflected</u> when it strikes a material.
  - 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
  - Gases such as <u>air</u> usually make better insulators than liquids or solids.
  - 2. A <u>vacuum</u> layer in a thermos is a good insulator because it contains almost no matter to allow conduction or convection to occur.

# **Thermal Energy Note Taking Guide Answers Key**

Carla C. Johnson, Janet B. Walton, Erin E. Peters-Burton

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