

Chapter 10 Thermal Energy Test

Multiple Choice

Directions: Choose the best answer for each question.

1. Temperature is a measure of the _____ of molecular motion.
a. mass
b. average kinetic energy
c. potential energy
d. thermal energy
2. The structure and forces between _____ molecules.
a. gases
b. liquids
c. solids
d. crystals
3. Heat is the _____
a. amount of thermal energy in an object
b. difference between the kinetic and potential energy
c. energy of heat transfer
d. kinetic energy of particles that transfer energy
4. A gas in contact with a hot reservoir _____
a. condenses
b. evaporates
c. sublimates
d. crystallizes
5. Which of the following is not a method of heat transfer?
a. conduction
b. convection
c. radiation
d. thermal energy

Completion

Complete each sentence.

1. The three phases of matter are _____, _____, and _____.
2. Kinetic energy is the energy of motion. _____, _____, and _____ are examples of kinetic energy.
3. Kinetic energy is the energy of motion. _____, _____, and _____ are examples of kinetic energy.
4. When you see your hand feel a stinging sensation when it touches a flame, it is because heat has been transferred from the flame to _____.
5. If you add 100 cal of water at 10°C to 100 cal of water at 20°C, the average kinetic energy of the water molecules _____.
6. When 100 cal of water at 20°C is added to 100 cal of water at 10°C, the thermal energy _____.
7. Temperature is a measure of the average kinetic energy of the _____.