Name _____ Date _____

Quiz

Phases of Matter

True or False? Circle T or F

1. The atoms or molecules in solids have no motion. T or F
2. Energy must be removed from a liquid to change it to a solid. T or F
3. Molecules in the gas phase move faster than the same molecules move in the liquid phase. T or F
4. Nitrogen changes from a liquid to a gas at the same temperature at which water changes from a liquid to a gas. T or F
5. There is enough energy in air at room temperature to change some liquids to gases. T or F
6. The temperature of ice water is lower than the temperature of dry ice in alcohol. T or F
7. Carbon dioxide can change directly from the solid phase to the gaseous phase. T or F

Multiple Choice: Circle the letter of the best answer

8. Which of the following is a correct description of what happens when you place a liquid in the freezer?

   A. Energy removed from the liquid remains in the freezer.
   B. Energy from the freezer is absorbed by the liquid.
   C. Energy from the liquid is exhausted into the atmosphere outside the freezer.
   D. None of the above.

9. Which of the following statements correctly represents the relationship between molecular motion and pressure?

   A. The greater the molecular motion, the less pressure the molecules exert.
   B. The greater the molecular motion, the greater the pressure the molecules exert.
   C. Molecular motion is not related to the pressure the molecules exert.
   D. None of the above.

10. Which of the following statements about absolute zero is correct?

    A. Absolute zero is the temperature at which there is no molecular motion.
    B. Absolute zero is the temperature at which there is the absolute maximum molecular motion.
    C. Absolute zero is 0º Celsius.
    D. Absolute zero is 0º Fahrenheit.

Answer Key

Phases of Matter

1. F	4. F	7. T	9. B
2. T	5. T	8. C	10. A
3. T	6. F		

Pressure

Molecular motion