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
- 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 0° Celsius.
  - D. Absolute zero is 0º Fahrenheit.

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# **Answer Key**

#### **Phases of Matter**

- 1. F
- 4. **F**
- 7. **T**
- 9. **B**

- 2. T
- 5. T
- 8. (
- 10. A

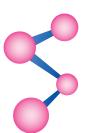
- 3. T
- 6.



Pressure



Molecular motion





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