

Name _____

Date _____

Bill Nye - Phases of Matter

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

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