| ume | Class | Date |
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| Skills Worksheet | | |
| Directed Reading | g B | |
| | | |
| Section: Four States o | | |
| MATTER: MOVING PARTICLES | | |
| 1. What is a state of matter? | | |
| | | |
| 2. What are the three most fa | miliar states of matter? | |
| | | |
| | | |
| 3. Matter is made up of partic | cles called | and |
| he space provided 4. Particles do not mo overcome the stron | ve fast enough to g attraction between them. | a. solid b. liquid |
| 5. Particles move inde | pendently of one another. | c. gas |
| 6. Particles are close to one another. | ogether but can slide past | |
| SOLIDS | | |
| | tter that make up a solid traction than those of a liquid ll. | d. |
| c. do not move fastd. move from place | enough to overcome the force to place. | ce of attraction. |
| 8. What is the definition of a | solid in terms of shape and v | olume? |
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| D | Directed Reading B continued | | |
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| LIC | QUIDS | | |
| 9. | . How do the particles of a liqu | id make it possible | to pour juice into a glass? |
| | | | |
| 10. | The juice in a beaker is poure juice in either container is 350 properties of a liquid? | - | _ |
| | | | |
| GA | ASES | | |
| 11. | . What is the definition of a gas | in terms of shape | and volume? |
| 12. | How is it possible for one small | all tank of helium to | o fill hundreds of balloons? |
| | | | |
| PL | _ASMAS | | |
| 13. | 6. What state of matter makes u | p more than 99% of | the matter in the universe? |
| 14. | How do plasmas behave diffe | rently than gases? | |
| | | | |
| 15. | Give one example of a natura | l plasma and one ex | xample of an artificial |
| | plasma. | | |
| | | | |
| | | | |

| Skills Worksheet | |
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| Directed Reading B | |
| Section: Changes of State (pp. 114-119) ENERGY AND CHANGES OF STATE | |
| 1. Which of the following have the most energy? a. particles in steam b. particles in liquid water c. particles in ice d. particles in freezing water | |
| 2. When a substance changes from one physical form to another, we say the | <u>,</u> |
| substance has undergone a(n) | |
| 3. List the five main kinds of changes of state. | |
| | |
| | |
| | |
| | |
| MELTING: SOLID TO LIQUID | |
| 4. Could you use gallium to make jewelry? Why or why not? | |
| | |
| | |
| | |
| 5. The temperature at which a substance changes from solid to liquid is | |
| the of the substance. | |
| FREEZING: LIQUID TO SOLID | |
| 6. A substance's is the temperature at which it | |
| changes from a liquid to a solid. | |

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| Directed Reading B continued | |
| 7. What happens if energy is added to or removed from | m a glass of ice water? |
| | |
| EVAPORATION: LIQUID TO GAS | |
| Match the correct definition with the correct term. Write provided. | the letter in the space |
| 8. the change of a substance from a liquid to a gas | a. boiling pointb. evaporation |
| 9. the change of state from a liquid to a gas when the vapor pressure equals the atmospheric pressure | c. boiling |
| 10. the temperature at which a liquid boils | |
| 11. As you go higher above sea level, the | decreases |
| and the of a substance ge | ts lower. |
| CONDENSATION: GAS TO LIQUID | |
| 12. The change of state from a gas to a liquid is called _ | |
| 13. At a given pressure, the condensation point for a sul | ostance is the same as |
| its | |
| 14. For a substance to change from a gas to a liquid, par | ticles |
| must | |
| SUBLIMATION: SOLID TO GAS | |
| 15. Why is solid carbon dioxide called "dry ice"? | |
| | |
| | |
| 16. The change of state from a solid directly to a gas is of | halles |

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| Directed Reading B contin | ued | | | | | |
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| TEMPERATURE AND CHANGES OF STATE | | | | | | |
| 17. The speed of the particl | es in a substance changes | when the | | | | |
| | _ | | | | | |
| | changes. | | | | | |
| 18. When a substance is undergoing a change of state, the temperature of the | | | | | | |
| substance does not char | nge until the | is complete. | | | | |