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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

States of Matter

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| **Across**  **2.** The pressure caused by the collisions of particles in a vapor with the walls of a container  **3.** A reversable physical change that occurs when a substanve changes states of matter  **6.** The energy a substance must absorb into change from solid to liquid  **9.** A description of change in which a system absorbs energy from it's surroundings  **13.** The process that changes a substance from liquid to gas based on temperature  **15.** The state of matter in which ba material has neither a definite shape or a definite volume  **16.** The state of matter in which materials have a definite shape and a definite volume  **17.** The direct proportion of the volume of a gas to it's temperature if it is constant  **18.** The state of matter in which a material has a definite volume but not a definite shape  **19.** A result of force distibuted over an area | **Down**  **1.** The phase change in which a substance changes from a gas or vapor to a liquid  **4.** The phase change in which a substance changes from liquid to gas  **5.** The energy a substance must absorb in order to change from solid to liquid  **7.** The energy an object has due to it's motion  **8.** The inverse relationship between volume and gas  **10.** The phase change in which a gas or vapor changes directly into a solid without first changing into a liquid  **11.** A description of change in which a system releases energy to it's surroundings  **12.** A temperature of zero Kelvins  **14.** The phase change in which a substance changes from a solid to a gas or vapor without changing to a liquid first |