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

properties and changes of matter

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|  |  |  |  |  |  |  |  | 1  E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | V |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 2  C | H | E | M | I | C | A | L | C | H | A | N | G | E | S |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | P |  |  |  |  |  |  |  |  |  |  |  | 3  S |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | O |  |  |  |  |  |  |  |  |  |  |  | O |  | 4  H |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | R |  |  |  |  |  |  |  |  |  | 5  S |  | L |  | E |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | A |  |  |  |  |  |  |  |  |  | U |  | U |  | T |  |  |  |  | 6  P |  |  |
|  |  |  |  |  |  | 7  S |  | T |  |  |  |  | 8  M |  |  |  |  | B |  | T |  | E |  |  |  |  | H |  |  |
|  |  |  |  |  |  | T |  | I |  |  |  |  | A |  |  | 9  E |  | S |  | I |  | R |  |  |  |  | Y |  |  |
|  |  |  |  |  | 10  L | A | W | O | F | C | O | N | S | E | R | V | A | T | I | O | N | O | F | 11  M | A | S | S |  |  |
|  |  |  |  |  |  | T |  | N |  |  |  |  | S |  |  | A |  | A |  | N |  | G |  | A |  |  | I |  |  |
|  |  |  |  |  |  | E |  |  |  |  |  |  |  |  |  | P |  | N |  |  |  | E |  | T |  |  | C |  |  |
|  |  |  |  |  |  | S |  |  |  | 12  D |  |  |  |  |  | O |  | C |  |  |  | N |  | T |  |  | A |  |  |
|  |  |  |  |  |  | O |  |  | 13  W | E | I | G | H | T |  | R |  | E |  |  |  | E |  | E |  |  | L |  |  |
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|  |  |  |  |  |  | M |  |  |  | S |  | 14  S | O | L | U | T | I | O | N |  |  | U |  |  |  |  | H |  |  |
|  |  |  |  |  |  | A |  |  |  | I |  |  |  |  |  | I |  |  |  |  |  | S |  |  |  |  | A |  |  |
|  |  |  |  |  |  | T |  | 15  W | A | T | E | R | 16  V | A | P | O | R |  |  |  |  | 17  M | E | L | T | I | N | G |  |
|  |  |  |  |  |  | T |  |  |  | Y |  |  | O |  |  | N |  |  |  |  |  | I |  |  |  |  | G |  |  |
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|  | 18  M | I | X | T | U | R | E |  |  |  |  |  | U |  |  | 19  P | R | O | P | E | R | T | I | E | S |  | S |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | M |  |  |  |  |  |  |  |  | U |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 20  H | O | M | O | G | E | N | E | O | U | S | M | I | X | T | U | R | E |  |  |  |  |  |  |
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| **Across**  **2.**  when any state of matter changes its substance that cannot be reversible  **10.** States that mass is neither created nor destroyed during a chemical reaction but is conserved  **13.**  how strongly gravity pulls on an object  **14.** A uniform mixture that may contain solids, liquids, or gases;also called a homogeneous mixture  **15.** the gaseous state of water  **17.** the chnage from a state from a solid to a liquid  **18.** A physical blend of two or more pure substances in any proportion in which each substance retains its individual properties; can be separated by physical means  **19.** the characteristics of a substance.  **20.** One that has a uniform composition throughout and always has a single phase; also called a solution | **Down**  **1.** state a substance reaches when it changes from a solid or liquid to a gas either at room temperature or boiling temperature.  **3.** one substance is mixed with another and dissolves in the substance  **4.** One that does not have a uniform composition and in which the individual substance remain distinct  **5.** A form of matter that has a uniform and unchanging composition; also known as a pure substance  **6.** when any state of matter changes, but can come back to its original shape  **7.** matter are observable in everyday life: solid, liquid, gas, and plasma  **8.** the amount of matter in an object  **9.** when the farthest particles on the surface of the liquid escape into the air and become gas  **11.** is anything that takes up space  **12.** the measure of how tightly matter is packed in an object, whether how an object will float or sink, and is a combination of mass and volume  **16.** the space it takes up an object/ can be measured |