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Properties and Changes in Matter

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|  |  |  |  |  |  | 13  P | L | A | S | M | A |  |  |  | 14  W | E | I | G | H | T |  | L |  | A |  |  |  |  |  |
|  |  |  |  | 15  G |  |  |  |  | I |  |  | 16  D |  |  |  | C |  | P |  |  |  | U |  | S |  |  |  |  |  |
|  |  |  | 17  L | A | W | O | F | C | O | N | S | E | R | V | A | T | I | O | N | O | F | M | A | S | S |  |  |  |  |
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| **Across**  **2.** Substances that change or react.  **4.** A definite volume but not a definite shape.  **5.** Describes how easily a substance reacts with other substances.  **6.** Flow easily and mix together easily. (gas & liquid)  **8.** When two or more substances are combined and changed into new substances with new properties.  **10.** The transfer of thermal energy by electromagnetic waves.  **13.** A hot mixture of ions and electrons  **14.** A measure of the force, or pull, on an object due to gravity.  **17.** Matter can be neither created or destroyed.  **19.** The idea that particles are made up of matter and are constantly moving.  **20.** Transfer of thermal energy through particles of matter that are in direct contact. | **Down**  **1.** Do not react with other substances.  **3.** The process that added thermal energy causes most substances to increase size, or expand.  **7.** The temp at which changes between solid in liquid that make it solid melt into a liquid or make a liquid freeze into a solid.  **9.** The transfer of thermal energy by the motion of fluids (gas & liquid)  **11.** The amount of space an object takes up.  **12.** The amount of matter in an object.  **15.** Has neither a definite shape nor definite volume.  **16.** The amount of mass per unit volume of a given substance.  **18.** Definite shape and volume. |