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

Matter and Energy

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| **Across**  **3.** The amount of matter a substance contains  **5.** A mixture in which particles of one or more substances (the solute) are distributed uniformly throughout another substance (the solvent)  **10.** matter that has no definite shape or volume; expands to fill its container  **11.** matter that has a fixed shape and a fixed volume  **13.** a change in which only the appearance or form of matter changes and not its chemical properties  **14.** A composition of two or more substances that are not chemically combined with each other and are capable of being separated.  **15.** The amount of space a substance takes up  **16.** The ratio of mass to volume of an object; how tightly packed a substances particles are  **17.** any combination of substances that does not have uniform composition and properties; a mixture of physically distinct substances with different properties  **18.** any combination of substances that has uniform composition and properties; a mixture that is uniform throughout | **Down**  **1.** The gaseous state of a substance that is normally liquid or solid at room temperature  **2.** a change in matter in which the arrangement of atoms are changed and an entirely new substance is formed  **4.** matter that has definite volume but no definite shape; takes the shape of its container  **6.** process for separating two liquids based on the boiling points of both liquids  **7.** Any material that has mass and takes up space  **8.** process of separating a mixture of a solid and a liquid  **9.** A substance consisting of atoms or ions of two or more different elements in definite proportions joined by chemical bonds; cannot be physical separated  **12.** A substance that cannot be broken down into simpler substances by chemical means |