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CHEMICAL REACTIONS

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| **Across**  **7.** A chemical reaction in which two compound exchange positive ions and form two new compounds.  **10.** A description of a change in which a system releases energy to its surrounding.  **12.** A substance that affects the rate of a chemical reaction without being used up in the reaction.  **13.** The rate at which reactants change into products over time.  **15.** A substance to be deposited in solid form from a solution.  **16.** A description of a change in which a system absorbs energy from its surrounding.  **17.** New substances formed as a result of a chemical reaction. | **Down**  **1.** A state in which the forwards and reverse paths pf a physical or chemical change take place at the same time.  **2.** A chemical reaction in which electrons are transferred from one reactant to another.  **3.** A chemical reaction in which one element takes another elements place in a compound.  **4.** Numbers that appear before a formula in a chemical equation to show the relative proportions of each reactant and product.  **5.** A chemical reaction in which a compound breaks down into two or more simpler substances.  **6.** A chemical reaction in which a substance reacts rapidly with oxygen, often producing heat and light.  **8.** A chemical reaction in which two or more substances react to from a single substance.  **9.** A representation of a chemical reaction in which the reactants and products are expressed as formulas.  **11.** A substance that undergoes change in a chemical reaction.  **14.** The action or fact of making a specified thing smaller or less in amount, degree, or size. |