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Chemical Reactions

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| **Across**  **9.** The new substances that are formed in a chemical reaction.  **10.** A condition in which different elements are equal or in the correct proportions. There are three types of visual balance: symmetry, asymmetry, and radial.  **12.** A chemical reaction that occurs when a substance reacts with oxygen, releasing energy in the form of heat and light combustion reaction A chemical reaction in which two or more reactants combine to produce a single product.  **13.** The starting materials in a chemical reaction.  **14.** Energy is released.  **15.** A substance that initiates or accelerates a chemical reaction without itself being affected.  **16.** A solid that forms from a solution during a chemical reaction.  **17.** Tells how many atoms of an element are contained in one molecule or formula unit.  **18.** A reaction in which a gas, a solid precipitate, or a molecular compound forms from the exchange of ions between two compounds. | **Down**  **1.** A chemical reaction that occurs when a substance reacts with oxygen, releasing energy in the form of heat and light.  **2.** Chemical reaction in which one element replaces another element in a compound.  **3.** Energy is absorbed  **4.** A reaction in which a single compound breaks down to form two or more simpler substances.  **5.** Tells how many atoms, molecules, or formula units take part in a reaction.  **6.** Any process in which electrons are added to an atom or ion.  **7.** A process during which chemical bonds between atoms are broken and new ones are formed. Producing one or more different substances.  **8.** A chemical change in which a substance combines with oxygen, as when iron oxidizes, forming rust.  **11.** A representation of a chemical reaction that uses symbols to show the relationship between the reactants and the products. |