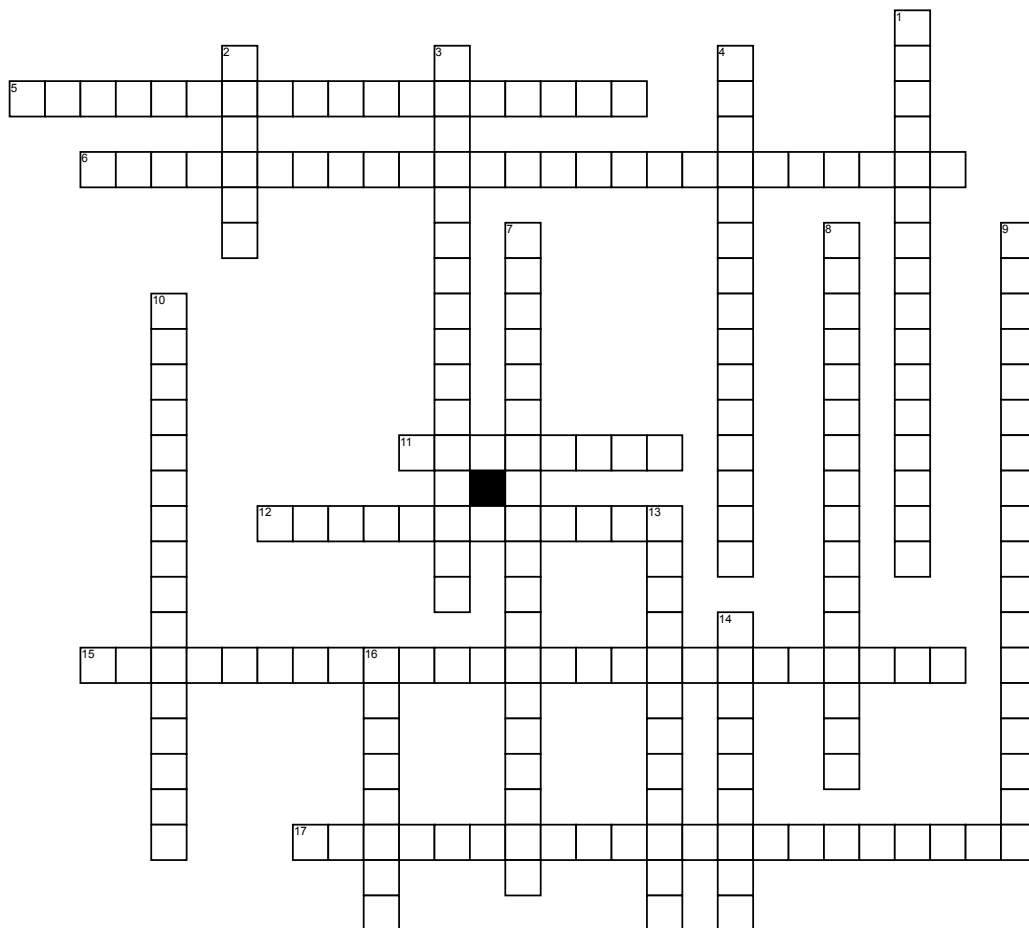


# Chemical Reactions



## Across

**5.** A reaction where the reactants form products, which react together to give the reactants back. A and B can react to form C and D or, in the reverse reaction, C and D can react to form A and B.

**6.** A type of chemical reaction where an element reacts with a compound and takes the place of another element in that compound.

**11.** A substance that speeds up a chemical reaction, but is not consumed by the reaction; hence a catalyst can be recovered chemically unchanged at the end of the reaction it has been used to speed up, or catalyze.

**12.** A multiplier or factor that measures some property

**15.** When the cations from one of the reactants combine with the anions from the other reactant to form an insoluble ionic compound.

**17.** When one reactant breaks down into two or more products

## Down

**1.** When aqueous solutions of sodium phosphate and calcium chloride are mixed together, an insoluble white solid forms

**2.** A chemical reaction would use all the reactants available and make 100% of the product that it should.

**3.** Occurs when the number of the different atoms of elements in the reactants side is equal to that of the products side

**4.** A solution in which the solvent is water. It is mostly shown in chemical equations by appending (aq) to the relevant chemical formula

**7.** In chemical reactions, you can combine two or more reactants to form a new product.

**8.** Equal numbers of atoms for each element involved in the reaction are represented on the reactant and product sides

**9.** Anytime anything burns (in the usual sense)

**10.** A way of using the formulas to indicate the chemicals that were involved in the chemical reaction

**13.** An ion that exists in the same form on both the reactant and product sides of a chemical reaction.

**14.** A substance that takes part in and undergoes change during a reaction.

**16.** Substances (elements and/or compounds) called reactants are changed into other substances (compounds and/or elements)

## Word Bank

reactants  
spectator ion  
single-replacement reaction  
combustion reaction  
decomposition reaction  
yields

products  
skeleton equation  
chemical equation  
catalyst  
double-replacement reaction  
balanced equation

coefficients  
aqueous solution  
net ionic equation  
reversible reaction  
combination reaction