

CHEMICAL REACTIONS

SCIENCE

A **chemical reaction** is a process in which one or more substances, known as reactants, are transformed into one or more different substances, called products; for example, when hydrogen reacts with oxygen to form water.

REACTANTS



Reactants are the substances present at the start of a chemical reaction that participates in the reaction to form products.

Example: in the reaction to form water, hydrogen and oxygen are the reactants.

The reactants are your ingredients, the items you start with (like flour, sugar, and eggs).

PRODUCTS



Products are the substances that are formed as a result of a chemical reaction.

Example: water is the product of the reaction between hydrogen and oxygen.

The products are what you end up with after the reaction (baking), which would be a cake in this analogy.

EXAMPLE OF CHEMICAL REACTION

COMBINATION

Two or more substances combine to form a single product.



DECOMPOSITION

A single substance breaks down into two or more simpler substances.



DISPLACEMENT

One element in a compound is replaced by another element.



DOUBLE DISPLACEMENT

Elements in two different compounds swap places with each other to form two new compounds.



COMBUSTION

A substance (usually a hydrocarbon) reacts with oxygen to produce heat, light, and typically produces carbon dioxide and water.



Combination



Decomposition

Displacement



Double Displacement



CHEMISTRY

Science Study Guide Plasma

Raffaela Di Napoli

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