

CHEMISTRY

CHEAT SHEET

CHEMICAL REACTIONS

CHEMICAL REACTIONS CHEAT SHEET

Analysis of a Chemical Reaction Equation



Type of Reaction	General Format
Combustion	$C_xH_y + O_2 \rightarrow CO_2 + H_2O$
Decomposition	$AB \rightarrow A + B$
Redox	Redox reactions involve the transfer of electrons between species. General format: $Red + Ox \rightarrow Ox + Red$
Acid-Base	Acid-Base reactions involve the transfer of protons (H ⁺) between an acid and a base. General format: $Acid + Base \rightarrow Salt + Water$
Double Displacement	$AB + CD \rightarrow AD + CB$
Single Displacement	$A + BC \rightarrow AC + B$

Notation of a Chemical Reaction

- 1. Reactants
- 2. Products
- 3. Reaction arrow
- 4. Stoichiometric coefficients
- 5. States of matter
- 6. Conditions (temperature, pressure, catalyst)

Stoichiometry and Chemical Reactions

Stoichiometry: The study of the quantitative relationships between the reactants and products in a chemical reaction.

Stoichiometric Coefficients: Numbers placed in front of the chemical formulas to balance the reaction.

Example: $2H_2 + O_2 \rightarrow 2H_2O$

Chemical Reaction Arrow Symbols

$\xrightarrow{\Delta}$	Reaction requires heat
$\xrightarrow{h\nu}$	Reaction requires light energy
$\xrightarrow{Pt}$	Reaction requires a platinum catalyst
$\xrightarrow{H^+}$	Reaction requires an acid catalyst
$\xrightarrow{OH^-}$	Reaction requires a hydroxide catalyst
$\xrightarrow{[O]}$	Oxidation reaction. The reaction involves the loss of electrons. Often, the reagent is written above the arrow.

Graphical Representation of Equilibrium and Kinetic Reactions



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Brian Nordstrom



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