

# CHEMISTRY

## CHEAT SHEET

### CHEMICAL REACTIONS

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##### Analysis of a Chemical Reaction Equation



Type of Reaction	General Form
Combustion	$C_xH_y + O_2 \rightarrow CO_2 + H_2O$
Decomposition	$AB \rightarrow A + B$
Redox	One substance is oxidized and another is reduced (electron transfer).
Acid-Base	$HA + B \rightarrow A^- + HB^+$
Double Displacement	$AB + CD \rightarrow AD + CB$
Redox	One substance is oxidized and another is reduced (electron transfer).
Redox	$A + B \rightarrow C + D$
Redox	$A + B \rightarrow C + D$

##### Notation of a Chemical Reaction

- 1. Reactants
- 2. Products
- 3. Reaction arrow
- 4. States of matter
- 5. Catalysts
- 6. Conditions

##### Equilibrium and Reversible Reactions



##### Chemical Reaction Arrow Symbols

$\xrightarrow{\Delta}$	Reaction requires heat
$\xrightarrow{h\nu}$	Reaction requires light
$\xrightarrow{Pt}$	Reaction requires Pt catalyst
$\xrightarrow{H^+}$	Reaction requires acid
$\xrightarrow{OH^-}$	Reaction requires base
$\xrightarrow{[O]}$	Oxidation reaction
$\xrightarrow{[R]}$	Reduction reaction

##### Graphical Representation of Equilibrium and Reversible Reactions



# Chemical Reactions Cheat Sheet

**John T. Moore, Chris Hren, Peter J.  
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Matter is anything that has mass and occupies space Everything around us from the tiniest particle to the vast universe is made up of matter Canny That s incredible But what about the tiniest building blocks of matter Jammy Great question At the heart of chemistry lies the concept of atoms Atoms are the fundamental units of matter and they consist of a nucleus containing protons and neutrons surrounded by electrons Each element on the periodic table is defined by the number of protons in its nucleus Canny So elements are like a unique fingerprint for the matter Jammy Exactly There are over a hundred known elements and they combine in various ways to form compounds These compounds can be as simple as water  $H_2O$  or as complex as DNA Canny I ve heard of the periodic table Is it like a cheat sheet for chemistry Jammy You got it The periodic table organizes elements based on their properties and atomic numbers It helps us understand the relationships between different elements and their behaviors in chemical reactions Canny Chemical reactions That sounds exciting How do they work Jammy Chemical reactions occur when atoms rearrange to form new substances with different properties It s like a dance of atoms where they break old bonds and create new ones Canny I can visualize that Are there different types of chemical reactions Jammy Indeed There are various types such as synthesis decomposition single replacement and double replacement reactions Each type has unique characteristics and applications Canny Chemistry seems like a puzzle with all these pieces coming together Jammy That s a great analogy And speaking of puzzles we have to mention acids and bases They play a vital role in chemistry and can be found in many everyday substances Canny I ve heard of acids and bases They have something to do with the pH scale right Jammy Exactly The pH scale measures the acidity or basicity of a substance It ranges from 0 to 14 with 7 being neutral Substances with a pH less than 7 are acidic while those with a pH greater than 7 are basic Canny I m starting to see how chemistry is all around us shaping the world we live in Jammy Absolutely Chemistry influences everything from the food we eat the medicines we take the materials we use and even the air we breathe It s a central science that connects many other fields of study Canny This is truly captivating I can t wait to learn more about the wonders of chemistry and delve into its intricacies Jammy I m thrilled that you re so enthusiastic Canny In the upcoming chapters we ll explore topics like thermodynamics organic chemistry chemical kinetics and even the cutting edge world of quantum chemistry Canny I m ready for the adventure Let s uncover the mysteries of the fascinating world of chemistry together Jammy Jammy You bet Get ready for an amazing journey into the heart of matter and the magic of molecules Chemistry awaits

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