



What's included:

*definitions required by specification

1. ATOMIC STRUCTURE
2. FORMULAE & CALCULATIONS
3. BONDING
4. ENTHALPY
5. KINETICS
6. EQUILIBRIA
7. REDOX
8. ORGANIC FORMULAE
9. ISOMERISM
10. ALKANES
11. HALOGENOALKANES
12. ALKENES
13. ALCOHOLS
14. ORGANIC ANALYSIS

ATOMIC STRUCTURE

Atomic Number	
Mass Number	
Isotope	
TOF Mass Spectrometer (Stages)	
First Ionisation Energy*	
Successive Ionisation Energies	
Relative Atomic Mass*	
Relative Isotopic Mass*	
Relative Molecular Mass*	
Relative Formula Mass*	

FORMULAE & CALCULATIONS

Molecular Formula

Empirical Formula

A Mole*

Avogadro's Constant*

Molar Mass*

Molar Gas Volume*

% Atom Economy

% Yield

Ideal Gas Equation

BONDING

Covalent Bond	
Co-ordinate Bond	
Electrostatic Attractions	
Ionic Bonding	
Metallic Bonding	
V.S.E.P.R.	
Electronegativity	
Permanent Dipole Force	
Induced Dipole Forces	
Hydrogen Bonding	

ENTHALPY I

Enthalpy Change (ΔH)

Standard Conditions*

Standard States*

Standard Enthalpy of Reaction ($\Delta^{\ominus}H_r$)*

Standard Enthalpy of Formation ($\Delta^{\ominus}H_f$)*

Standard Enthalpy of Combustion ($\Delta^{\ominus}H_c$)*

Standard Enthalpy of Neutralisation ($\Delta^{\ominus}H_{\text{neut}}$)*

Heat Change (Q)

Hess' Law

Average Bond Enthalpy*

KINETICS

Collision Theory

Catalyst

Homogeneous Catalyst

Heterogeneous Catalyst

Activation Energy*

EQUILIBRIA

Dynamic Equilibrium

Le Chatelier's Principle

Homogeneous

Equilibrium Constant - K_c

REDOX

Oxidation	
Reduction	
Oxidising Agent	
Reducing Agent	
Disproportionation*	

ORGANIC FORMULAE

General Formula*	
Homologous Series*	
Molecular Formula	
Empirical Formula	
Structural Formula*	
Skeletal Formula*	
Displayed Formula*	
Aliphatic	
Alicyclic	
Aromatic	

ISOMERISM

Structural Isomer*	
Chain Isomer	
Positional Isomer	
Functional Group Isomer	
Stereoisomer*	
E/Z Isomer*	
Cis-Trans isomer*	

ALKANES

Alkane

Fractional Distillation

Thermal Cracking

Catalytic Cracking

Free Radical*

Free Radical Substitution

HALOGENOALKANES

Halogenoalkane	
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Nucleophile*	
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Nucleophilic Substitution	
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Elimination Reaction	
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ALKENES

Alkene	
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C=C Double Bond	
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Electrophilic Addition	
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Addition Polymerisation	
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Test for an Alkene	
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ALCOHOLS

Alcohol	
Hydration of Alkenes	
Fermentation	
Oxidation of Alcohols	
Elimination Reaction	
Test for an Alcohol	
Test for a Carboxylic Acid	

ORGANIC ANALYSIS

Mass Spectroscopy

Molecular Ion Peak

Fragmentation

IR Spectroscopy
