



What's included:

*definitions required by specification

1. ATOMIC STRUCTURE
2. FORMULAE & CALCULATIONS
3. BONDING
4. ENERGETICS
5. KINETICS
6. EQUILIBRIA
7. REDOX
8. ORGANIC FORMULAE
9. ISOMERISM
10. ALKANES
11. HALOALKANES
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

ENERGETICS

Enthalpy Change (ΔH)

Standard Conditions

Standard States

Standard Enthalpy of Reaction ($\Delta_{\theta}H_r$)*

Standard Enthalpy of Formation ($\Delta_{\theta}H_f$)*

Standard Enthalpy of Combustion ($\Delta_{\theta}H_c$)*

Standard Enthalpy of Neutralisation ($\Delta_{\theta}H_{\text{neut}}$)*

Heat Change (Q)

Hess' Law

Mean 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 Number*	
Oxidation	
Reduction	
Oxidising Agent	
Reducing Agent	
Disproportionation	

ORGANIC FORMULAE

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

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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Electrophile*	
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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
