



AQA Trilogy ***(Combined Science)*** ***GCSE (9-1) Chemistry***

Specification Summary

Section 1: Atomic Structure & The Periodic Table

Simple Model, Symbols, RAM, Charge, Isotopes
The Periodic Table

Section 2: Bonding, Structure & The Properties of Matter

Chemical bonds, ionic, covalent, metal
How bond & structure relate to properties
Structure & bonding carbon

Section 3: Quantitative chemistry

Chem measure, con mass & quant interp eq
Use of amount of sub, masses pure subs

Section 4: Chemical changes

Reactivity of metals
Reactions of acids
Electrolysis

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Section 5: Energy changes

Exothermic and endothermic reactions

Section 6: Rate & extent chemical change

Rate of reaction

Reversible reacts & dynamic equilibrium

Section 7: Organic chemistry

Carbon compounds as fuels & feedstock

Section 8: Chemical analysis

Purity, formulations & chromatography

Identification of common gases

Section 9: Chemistry of the atmosphere

Comp & evolution of the Earth's atmosphere

Carbon dioxide & methane as greenhouse gases

Common atmospheric pollutants & sources

Section 10: Using resources

Using Earth's res, potable water

Life cycle assessment & recycling



AQA Trilogy
(Combined Science)
GCSE (9-1) Physics

Specification Summary

Section 1: Energy

Energy Stores & Systems
Changes in energy
Energy changes in systems
Energy transfers in a system
Efficiency
National and global energy resources

Section 2: Electricity

Current, potential difference and resist
Series and parallel circuits
Domestic uses and safety
Energy transfers

Section 3: Particle model of matter

Changes of state and the particle model
Internal energy
Temp changes, specific heat capacity
Changes of heat, specific latent heat
Particle model and pressure

Section 4: Atomic structure

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Atoms and isotopes
Atoms and nuclear radiation

Section 5: Forces

Scalar and vector quantities
Contact and non-contact forces
Gravity
Resultant forces
Work done and energy transfer
Forces and elasticity
Distance and displacement
Speed
Velocity
The distance-time relationship
Acceleration
Newton's First Law

Newton's Second Law
Newton's Third Law
Forces and braking

Momentum - BRONZE
Momentum - GOLD

Section 6: Waves

Waves in air, fluids, solids
Electromagnetic waves

Section 7: Magnetism and electromagnetism

Permanent+ induced magnet, magnetic force & fields
The motor effect



AQA Trilogy
(Combined Science)
GCSE (9-1) Biology

Specification Summary

Section 1: Cell Biology

Cell Structure
Cell division
Transport in cells

Section 2: Organisation

Principles of organisation
Animal tissues, organs and organ systems
Plant tissues, organs and systems

Section 3: Infection and response

Communicable diseases

Section 4: Bioenergetics

Photosynthesis
Respiration

Section 5: Homeostasis and response

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Homeostasis

The human nervous system

Hormonal coordination in humans

Section 6: Inheritance, variation and evolution

Reproduction

Variation and evolution

Development & understanding genetics & evolution

Classification of living organisms

Section 7: Ecology

Adaptations, interdependence, competition

Organisation of an ecosystem

Biodiversity: human effect on ecosystem