AQA Combined Science Trilogy - Year 11 mocks November 2026

The topics listed below are those which you have covered in Years 10 & 11. Make sure to look over them in preparation for your mocks. Topics which are specific to the Higher level (HL) papers are written in **bold**:

Biology

B1 Cell Biology

- Cell Structure: Eukaryotic and prokaryotic cells; Animal and plant cells; Specialised cells; Microscopes and magnification; Culturing microorganisms
- Transport in Cells: Diffusion; Osmosis; Active transport
- Calculating magnification and image size
- Surface area to volume ratio

B2 Organisation

- Organisation levels
- Digestive system and enzymes
- Heart, blood vessels and blood
- Plant tissues, xylem, phloem, transpiration and translocation
- Lock-and-key model

B3 Infection and Response

- Pathogens and communicable diseases: Viral, Bacteral, Fungal and Protist
- Defense systems
- Vaccination, antibiotics and drug development

B4 Bioenergetics

- Photosynthesis and limiting factors
- Uses of glucose
- Aerobic and anaerobic respiration
- Importance of respiration
- Metabolism

Chemistry

C1 Atomic Structure and the Periodic Table

- Atoms, elements and compounds
- Atomic models
- Subatomic particles
- Electronic structure
- Development of the periodic table
- Group 0, Group 1 and Group 7

C2 Bonding, Structure and Properties of Matter

- Ionic, covalent and metallic bonding
- Giant ionic, simple molecular and giant covalent structures
- States of matter and changes of state
- Dot-and-cross diagrams
- Explaining properties through bonding and structure

C3 Quantitative Chemistry

- Relative formula mass
- Conservation of mass
- Concentrations
- **(HL) Moles**
- **(HL) Concentration calculations in mol/dm^3**

C4 Chemical Changes

- Reactivity series
- Extraction of metals
- Oxidation and reduction
- Acids, alkalis and salts
- Electrolysis
- **(HL) Ionic equations**
- **(HL) Half equations**

C5 Energy Changes

- Exothermic and endothermic reactions
- Reaction profiles
- **(HL) Energy calculations using bond energies**

Physics

P1 Energy

- Energy stores and transfers
- Conservation of energy
- Work done
- Efficiency
- Renewable and non-renewable resources
- National and global energy resources

P3 Particle Model of Matter

- Density
- Changes of state: Latent Heat, Specific Heat Capacity
- Gas pressure

P4 Atomic Structure

- Structure of the atom and isotopes
- Models of the atom
- Alpha, beta and gamma radiation
- Nuclear decay and half-life
- Uses and hazards of radiation

P5 Forces

- Scalar and vector quantities
- Contact and non-contact forces
- Weight and mass
- Forces and elasticity
- Distance, speed and velocity, and graphs
- Newton's Laws
- Velocity and acceleration, and graphs
- Stopping and braking distances
- Reaction time
- **(HL) Momentum**
- **(HL) Conservation of momentum**

AQA Triple Science - Year 11 mocks November 2026

The topics listed below are those which you have covered in Years 10 & 11. **In addition to the combined content,** make sure to look over them in preparation for your mocks.

Biology

B3 Infection and Response

- Monoclonal antibodies
- Culturing microorganisms
- Plant disease and hormones

B5 Homeostasis and response

- The brain and the eye
- Thermoregulation
- Maintaining water and nitrogen balance in the body

Chemistry

C2 Bonding, Structure and Properties of Matter

- Transition metals
- Alloys and useful materials
- Ceramics, polymers and composites
- Nanoparticles and their uses

C3 Quantiative Chemistry

- Percentage yield
- Atom economy
- Corrosion and prevention
- Molar volume of gases

C5 Energy changes

- Chemical cells and fuel cells

C8 Chemical analysis

- Flame tests
- Tests for metal hydroxides, carbonates, halides and sulfates
- Instrumental methods and flame emission spectroscopy

Physics

P5 Forces

- Moments, levers and gears
- Fluid and atmospheric pressure

P6 Waves

- Conduction and convection
- Thermal insulators
- Infrared and temperature
- Blackbody radiation
- Visible light
- Electromagnetic waves: uses and dangers
- Reflection and lenses
- The ear
- Ultrasound
- P and S waves

P8 Space

- Life cycle of a star
- Circular motion
- Red shift