



SCAN HERE FOR
LINKS TO MORE
DETAILED
CURRICULUM
INFORMATION.

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Lab Safety and Basic Practical

Students will study:
bunsen burner licence,
hazard symbols and complete an
introduction to investigation skills.

Particle Model of Matter

Students will study:
particles in solid, liquid and gases,
density, energy and motion in
solids, liquids and gases.

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Energy

Students will study:
what is energy, types of energy,
conservation of energy, insulation,
heating and cooling, sound and
light waves.

Electricity

Students will study:
static, charge, conductors, series
and parallel, potential difference,
resistance, Ohm's law and energy
transfer.

Forces

Students will study:
forces, contact and non-contact,
resultant force, mass, gravity and
weight, terminal velocity, elastic
forces, speed, acceleration,
Newton's Law and momentum.

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Energy

Students will study:
potential energy, kinetic energy,
work done and power, specific heat
capacity, thermal energy transfer,
efficiency, insulation and the
Earth's resources.

Electricity

Students will study:
static, circuits and symbols, current and
potential difference, series and parallels,
resistance, IV characteristics, transmitting
electricity, transformers and power and energy.

Particle Model of Matter

Students will study:
particle model, changes of state,
density and latent heat.

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Atomic Structure

Students will study:
atomic structure, decay,
background radiation, half-life,
radioactive hazards and uses,
irradiation, uses in medicine,
nuclear fission and fusion.

Forces

Students will study:
forces and their interactions, gravity, resultant force, work
done and energy transfer, forces and elasticity, Hooke's
law required practical, forces and motion, acceleration
required practical, momentum. **Additional triple only
content is: moments, levers and gears, pressure and
pressure in fluids and changes in momentum.**

Space

**Triple only content: our solar system, satellites,
formation of stars and the sun and red shift.**

Waves & Light

Students will study: types of waves,
electromagnetic spectrum, waves required
practical, reflection, refraction and the required
practical. **Additional triple only content is: sound
waves, seismic waves, colour, lenses, images and
magnification.**

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Electromagnetism

Students will study:
permanent magnets, Earth's
magnetic field, solenoid, electric
motors. **Additional triple only
content is: loudspeakers, generator
effect and transformers.**

Revision

Students will:
recap Paper 1 and 2 topics, exam
question practice.

Revision

Students will complete:
final preparation for the Summer
Exams.