

KEY STAGE FOUR PATHWAYS

Subject Title: **GCSE Physics**

Subject Team Leader: **Mr L Adams (ladams@perins.hants.sch.uk)**

Examination Board: **OCR www.ocr.org.uk**

Course Description

The GCSE Physics course introduces students to the key concepts of physics, integrating theory with practical skills. It helps students develop their knowledge of scientific methodology and their conceptual understanding of physics and how this can be applied to the world around them.

Topics of study

P1: Matter

Particle model
Changes of state
Pressure

P2: Forces

Motion
Newton's laws
Forces in Action

P3: Electricity

Static and charge
Simple circuits

P4: Magnetism and Magnetic Fields

Magnets and magnetic fields
Uses of magnetism

P5: Waves in matter

Wave behaviour
The EM spectrum
Wave interaction

P6: Radioactivity

Radioactive emissions
Uses and hazards

P7: Energy

Work done
Power and efficiency

P8: Global challenges

Physics on the move
Powering Earth
Beyond Earth

Examinations

Chemistry Paper 1 – P1, P2, P3
Chemistry Paper 2 – P4, P5, P6
(with assumed knowledge of P1,P2,P3)

EACH EXAM COUNTS 50% OF THE
OVERALL PHYSICS SCIENCE GRADE

EXAMS ARE 1hr 45 min

Total marks available 90

