

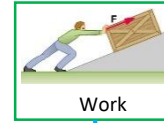
St Aidan's High School GCSE PHYSICS LEARNING JOURNEY



A level Sciences – Biology,
Chemistry and Physics
(Need grade 6 and above
and grade 6 in Maths)

Other post 16 options –
Apprenticeships, other A
level subjects, other BTEC
subjects, other training,
College?

Exams



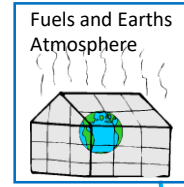
Work



Forces doing
work



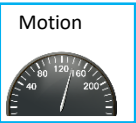
Earth & Space



Fuels and Earths
Atmosphere

P7

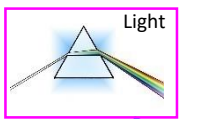
P8



Motion



Radioactivity



Light

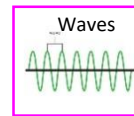


Motion
& Forces

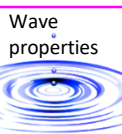
P2

**YEAR
11**

P6

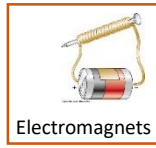


Waves

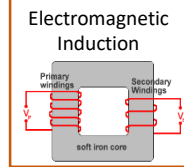


Wave
properties

P5

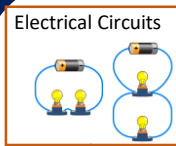


Electromagnets



Electromagnetic
Induction

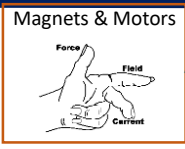
P4



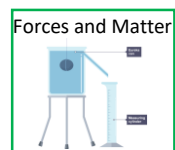
Electrical Circuits



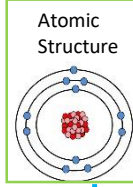
Magnetism



Magnets & Motors



Forces and Matter



Atomic
Structure

P3

P1



Pressure



Particle
Model



**YEAR
10**



Speed



Electricity

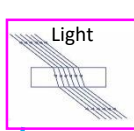
Forces



Voltage



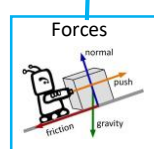
Light & Sound



Light



Gravity



Forces



Current

Electricity

Waves

Intro Topic

**YEAR
9**

Year 9 Physics is a
KS3 course which
prepares students for
GCSE

OCR Gateway Physics

Higher Tier, grades 9 to 4		
<p>Content is split into eight teaching topics P1-P8 and a practical activity skills topic P9:</p> <ul style="list-style-type: none"> • Topic P1: Matter • Topic P2: Forces • Topic P3: Electricity • Topic P4: Magnetism and magnetic fields • Topic P5: Waves in matter • Topic P6: Radioactivity • Topic P7: Energy • Topic P8: Global challenges • Topic P9: Practical skills <p>Paper 3 assesses content from Topics P1–P4 and P9</p> <p>Paper 4 assesses content from Topics P5–P8, with assumed knowledge of Topics P1– P4 and P9</p>	<p>Paper 3</p> <p>J249/03</p> <p>90 marks</p> <p>1 hour 45 minutes</p> <p>Written paper</p>	<p>50% of total GCSE</p>
	<p>Paper 4</p> <p>J249/04</p> <p>90 marks</p> <p>1 hour 45 minutes</p> <p>Written paper</p>	<p>50% of total GCSE</p>

Content

Topic P1: Matter	Topic P2: Forces	Topic P3: Electricity
P1.1 The particle model P1.2 Changes of state P1.3 Pressure	P2.1 Motion P2.2 Newton's laws P2.3 Forces in action	P3.1 Static and charge P3.2 Simple circuits
Topic P4: Magnetism and magnetic fields	Topic P5: Waves in matter	Topic P6: Radioactivity
P4.1 Magnets and magnetic fields P4.2 Uses of magnetism	P5.1 Wave behaviour P5.2 The electromagnetic spectrum P5.3 Wave interaction	P6.1 Radioactive emissions P6.2 Uses and hazards
Topic P7: Energy	Topic P8: Global challenges	
P7.1 Work done P7.2 Power and efficiency	P8.1 Physics on the move P8.2 Powering Earth P8.3 Beyond Earth	