

PHYSICS SEPARATE SCIENCE CURRICULUM: KS4

Intent:

In Science we aim to deliver a *knowledge rich, ambitious, and inclusive* curriculum that ensures all pupils master key concepts in the three Sciences. This *empowers* them to examine *relevant* global issues such as pollution, food sustainability, climate change *etc.* We ensure pupils develop a *coherent* understanding of scientific enquiry and gain the skills needed to draw valid conclusion via practical work. We aim to foster pupil's natural curiosity and develop them into critical thinkers where they can apply their knowledge to the modern world (e.g., understanding electricity bills, choosing a car wisely, the importance of screening).



Qualification(s)	Physics GCSE
Exam Board	AQA
Link to Specification	https://www.aqa.org.uk/subjects/science/gcse/physics-8463/specification-at-a-glance

Procedural knowledge is developed throughout the curriculum whilst pupil's carry out the required practicals. These practicals are assessed within the external exams so is vital pupils attend these lessons.

A test will follow after each group of chapters. E.g. after P1, P2 and P3. This will include core questions plus an extended writing question. These are highlighted on the document with a *.

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 10	P1 – Conservation and Dissipation of Energy P2 – Energy Transfer by Heating	P3 – Energy Resources* P4 – Electric Currents	P5 – Electricity in the Home*	P6 – Molecules and Matter	P7 – Radioactivity*	P8 – Forces in Balance <i>Mock exams</i>
Year 11	P9 – Motion P10 – Forces and Motion	P11 – Force and Pressure* P12 – Wave Properties <i>Mock exams</i>	P13 – Electromagnetic Waves P14 - Light	P15 – Electromagnetism P16 – Space* <i>Mock exams</i>	<i>Revision</i>	<i>External Exams</i>

Further Support:

Pupils have access to an online textbook and revision materials on Kerboodle:

<https://www.kerboodle.com/users/login>

BBC Bitesize has some excellent resources to support your child’s learning:

<https://www.bbc.co.uk/bitesize/examspecs/zsc9rdm>

Isaac Physics is a wonderful free resource to help develop your child’s mathematical reasoning skills.

<https://isaacphysics.org/>

Who to contact regarding KS4 Physics:

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