

Year 10  
SEPARATE SCIENCE PHYSICS

Subject Title	GCSE Physics
Exam board	AQA
Specification code	8463
Entry Level	Foundation and Higher Tier
Exam details	<p>Two papers Duration – 1hour 45 minutes; 100 marks per paper Each paper 50% of GCSE Questions: Multiple choice, structure, closed short answer and open response</p> <p><b>Physics Paper 1</b> Topics 1-4: Energy; Electricity; Particle model of matter; and Atomic structure.</p> <p><b>Physics Paper 2</b> Topics 5-8: Forces; Waves; Magnetism and electromagnetism; and Space physics. Questions in paper 2 may draw on an understanding of energy changes and transfers due to heating, mechanical and electrical work and the concept of energy conservation from Energy and Electricity topics.</p>
Setting arrangements	N/A
Time allowed	12 lessons per fortnight 12 x 50 minutes
Textbooks and revision guides	<p>AQA GCSE Physics – 978-0-19-835939-5 On line version of text book is provided</p> <p><b>Revision Guide</b> CGP – GCSE Physics ISBN: 978- 1-78-294577-2</p>
Homework information	2 Homeworks per week x 50 minutes Exam style questions; Research; Assessment; Revision; and Retrieval practice

Term	Topics	Skills	Assessment
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1	Particle Model of matter	Practical and investigation skills. Information retrieval. Listening and observing. Scientific reading. Data representation. Scientific writing. Knowledge presentation. Mathematical skills.	Formative skills assessments focusing on required practicals. Retrieval practice – exam style questions
2	Electricity Static electricity	Practical and investigation skills. Information retrieval. Listening and observing. Scientific reading. Data representation. Scientific writing. Knowledge presentation. Mathematical skills.	Formative skills assessments focusing on required practicals. Retrieval practice – exam style questions
3	Waves Reflection of waves Sound waves Detection Lenses Visible light Black body radiation	Practical and investigation skills. Information retrieval. Listening and observing. Scientific reading. Data representation. Scientific writing. Knowledge presentation. Mathematical skills.	Formative skills assessments focusing on required practicals. Retrieval practice – exam style questions
4	Space physics	Practical and investigation skills. Information retrieval.	Formative skills assessments focusing on required practicals. Retrieval practice – exam style questions

		<p>Listening and observing. Scientific reading.</p> <p>Data representation. Scientific writing.</p> <p>Knowledge presentation.</p> <p>Mathematical skills.</p>	Year 10 Exams
5	<p>Loudspeakers</p> <p>Induced potential</p>	<p>Practical and investigation skills.</p> <p>Information retrieval.</p> <p>Listening and observing. Scientific reading.</p> <p>Data representation. Scientific writing.</p> <p>Knowledge presentation.</p> <p>Mathematical skills.</p>	<p>Formative skills assessments focusing on required practicals.</p> <p>Retrieval practice – exam style questions</p>
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<p>Links to websites and revision materials:</p>		<p>Online text book - <a href="https://www.kerboodle.com/users/login">https://www.kerboodle.com/users/login</a></p> <p>Revision resources <a href="https://www.bbc.co.uk/bitesize/subjects/zrkw2hv">https://www.bbc.co.uk/bitesize/subjects/zrkw2hv</a></p> <p>Quizzes <a href="https://www.educationquizzes.com/gcse/science/">https://www.educationquizzes.com/gcse/science/</a></p> <p><a href="https://senecalearning.com/en-GB/">https://senecalearning.com/en-GB/</a></p>	