

## Year 11 Physics – Outline Programme of Study

	Term 1	Term 2	Term 3	Term 4	Term 5
Big ideas/ topics	Forces	Forces	Waves	Waves	Electromagnetism Space
Key Knowledge	Contact and Non-Contact forces; Newton's Laws of Motion; Forces and Elasticity Stopping Distance and Braking Distance Work Done	Moments Levers and Gears* Momentum and Conservation of momentum, pressure in fluids* Distance-time graphs; Velocity-time graph Mock paper revision	Mock paper review Types of Wave/ The Wave Equation / Wave Properties Waves in air, fluid and solids	Electromagnetic Waves Visible light* Lenses* Blackbody Radiation*	Permanent and Induced magnetism Magnetic forces and fields Motor effect and microphones/loudspeakers Generator Effect* Transformers  Stability of orbital motion/Satellites (natural and artificial)/Solar System Life Cycle of stars Red Shift and Big Bang

\*Separate Physics Only

Further information and reading list
<ul style="list-style-type: none"> <li>• AQA <a href="#">Trilogy</a> (8464) or AQA <a href="#">Physics</a> (8463) Specification</li> <li>• <a href="#">CGP AQA Trilogy (8464)</a> or <a href="#">CGP AQA Physics (8463)</a> Revision Guides</li> <li>• <a href="#">CGP AQA Trilogy (8464)</a> or <a href="#">CGP AQA Physics (8463)</a> Flashcards</li> <li>• <a href="#">Educake</a></li> <li>• <a href="#">Focus elearning</a></li> <li>• <a href="#">BBC bitesize</a></li> <li>• <a href="#">Physics maths tutor</a></li> <li>• <a href="#">Savemyexams</a></li> <li>• <a href="#">Freesciencelessons.co.uk</a></li> <li>• <a href="#">Malmesbury Science</a></li> <li>• <a href="#">Biology</a> / <a href="#">Chemistry</a> / <a href="#">physics</a> textbooks</li> <li>• <a href="#">AQA Command words</a>      <a href="#">Subject specific vocabulary</a></li> </ul>
Ways to support and extend student learning in this subject
<ul style="list-style-type: none"> <li>• All lesson resources available on google classroom</li> <li>• Use Educake to reinforce key knowledge</li> <li>• Pearsons target grade books. <a href="#">Trilogy</a> <a href="#">Physics</a></li> <li>• New scientist</li> <li>• <a href="#">Trilogy past papers</a></li> <li>• <a href="#">Physics past papers</a></li> <li>• YouTube sites</li> <li>• Christmas lectures</li> <li>• Lesson PowerPoints and other resources are also put onto google classroom.</li> </ul>