

Subject	Year 11 Physics Content Spring Term	How to support students' learning
Combined Science – AQA Trilogy	<p>Students have now finished the content for GCSE Combined Science. They are now revising in lessons, please refer to the structured revision timetable available.</p> <p>Resources can be found on the OLC in addition to the following websites:</p> <p><a href="#">GCSE Combined Science - AQA Trilogy - BBC Bitesize</a>  <a href="#">AQA GCSE (9-1) Physics Revision - PMT (physicsandmathstutor.com)</a></p>	
Electromagnetism – Triple Content Only	<p>Summary of Concepts Covered:</p> <ul style="list-style-type: none"> <li>➤ The Generator</li> <li>➤ Dynamos, Microphones and AC Graphs</li> <li>➤ Basic Transformer</li> </ul>	<p>This section is triple content only, so it will not apply to every student.</p> <p>Review your knowledge of generators and the electromagnetic induction by watching this video here: <a href="#">GCSE Physics - Generator Effect / Electromagnetic Induction #81 - YouTube</a></p> <p>Review the workings of a transformer by watching the video here: <a href="#">GCSE Physics - How Transformers Work #82 - YouTube</a></p> <p>Practice using the equations for a transformer by watching the video here: <a href="#">GCSE Physics - Transformer Calculations #83 - YouTube</a></p>
Space – Triple Physics Only	<p>Summary of Concepts Covered:</p> <ul style="list-style-type: none"> <li>➤ The Solar System and Life Cycle of Stars</li> <li>➤ Satellites</li> <li>➤ Red Shift, Big Bang and Dark Matter</li> </ul>	<p>This section is triple content only, so it will not apply to every student.</p> <p>There are a variety of resources of the space topic, with flash cards, class notes and access to past paper questions: <a href="#">AQA GCSE Physics Topic 8: Space Physics Revision - PMT (physicsandmathstutor.com)</a></p>
Waves - Triple Physics Content Only	<p>Summary of Concepts Covered:</p> <ul style="list-style-type: none"> <li>➤ How we hear sound.</li> <li>➤ Uses of waves in imaging, sonar</li> <li>➤ Developing theories on the structure of the Earth.</li> <li>➤ Concave (diverging) and convex (converging) lenses.</li> <li>➤ Light and Colour</li> </ul>	<p>Understand how we hear and all about sound waves by watching this video: <a href="#">GCSE Physics - Sound Waves and Hearing #73 - YouTube</a></p> <p>What is sound used for? Imaging and sonar and 2 examples you need to know. Watch the video here for more information: <a href="#">GCSE Physics - Ultrasound #74 - YouTube</a></p> <p>You need to know how S waves and P waves are used to determine the structure of the Earth. Review your knowledge by reading this</p>

		<p>website: <a href="#">The Earth - Pass My Exams: Easy exam revision notes for GCSE Physics</a></p> <p>Practise drawing concave and convex diagrams by watching this video here: <a href="#">GCSE Physics - How to Draw Ray Diagrams #70 - YouTube</a></p> <p>Read through the website here about light and colour: <a href="#">Visible Light and Colours (GCSE Physics) - Study Mind</a></p>
<p>Radioactivity – Triple Content Only</p>	<p>Summary of the concepts covered:</p> <ul style="list-style-type: none"> <li>➤ Nuclear Radiation – Medicine</li> <li>➤ Fission</li> </ul> <p>Fusion</p>	<p>Read up about uses and risks of nuclear <a href="#">Irradiation - Uses and dangers of radiation - AQA - GCSE Physics (Single Science) Revision - AQA - BBC Bitesize</a></p> <p>Review your knowledge about fission by reading this website: <a href="#">Nuclear fission - Uses and hazards of radiation - GCSE Physics (Single Science) Revision - Other - BBC Bitesize</a></p> <p>Watch this video here about Nuclear Fusion: <a href="#">GCSE Physics - Nuclear Fusion #39 - YouTube</a></p>
<p>Force and Pressure - Triple Physics Content Only</p>	<p>Summary of Concepts Covered:</p> <ul style="list-style-type: none"> <li>➤ Pressure in a fluid.</li> <li>➤ Pressure in liquids at different depths.</li> <li>➤ How atmospheric pressure varies with height.</li> <li>➤ Upthrust on submerged objects.</li> </ul>	<p>Pressure is a basic concept you covered in year 8, review this information by watching the video: <a href="#">What is Pressure?   Physics   Don't Memorise - YouTube</a></p> <p>What about pressure caused by fluids? Read about static fluid pressure here: <a href="#">What is Hydrostatic Pressure -- Fluid Pressure and Depth (edinformatics.com)</a></p> <p>The atmosphere causes pressure too. Review how the pressure changes due to the altitude by watching this video: <a href="#">GCSE Physics - Atmospheric Pressure #50 - YouTube</a></p> <p>Upthrust is an important force that helps explain why objects sink or float. Review the content covered in lessons by reading this website: <a href="#">Upthrust (4.2.4)   CIE A Level Physics Revision Notes 2022   Save My Exams</a></p>

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<p>Moments and Gears - Triple Content Only</p>	<p>Summary of Concepts Covered:</p> <ul style="list-style-type: none"> <li>➤ Moments</li> <li>➤ Moments and Gears</li> <li>➤ Centre of Mass Practical</li> </ul>	<p>Moments, levers and gears is triple content only. Review the work covered by reading the BBC Bitesize website: <a href="#">Gears - Moments, levers and gears - AQA - GCSE Physics (Single Science) Revision - AQA - BBC Bitesize</a></p> <p>And watch the video available: <a href="#">Moments, levers and gears - AQA - Video - GCSE Physics (Single Science) - BBC Bitesize</a></p> <p>Also, there is a small test to complete to assess your knowledge: <a href="#">Moments, levers and gears test questions - AQA - GCSE Physics (Single Science) Revision - BBC Bitesize</a></p> <p>Watch this video on completing the centre of mass practical: <a href="#">Centre of Mass and Gravity GCSE Physics Required Practical - YouTube</a></p>