

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>GCSE Combined Science - AQA Trilogy - BBC Bitesize AQA GCSE (9-1) Physics Revision - PMT (physicsandmathstutor.com)</p>	
Electromagnetism – Triple Content Only	<p>Summary of Concepts Covered:</p> <ul style="list-style-type: none"> ➤ The Generator ➤ Dynamos, Microphones and AC Graphs ➤ Basic Transformer 	<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: GCSE Physics - Generator Effect / Electromagnetic Induction #81 - YouTube</p> <p>Review the workings of a transformer by watching the video here: GCSE Physics - How Transformers Work #82 - YouTube</p> <p>Practice using the equations for a transformer by watching the video here: GCSE Physics - Transformer Calculations #83 - YouTube</p>
Space – Triple Physics Only	<p>Summary of Concepts Covered:</p> <ul style="list-style-type: none"> ➤ The Solar System and Life Cycle of Stars ➤ Satellites ➤ Red Shift, Big Bang and Dark Matter 	<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: AQA GCSE Physics Topic 8: Space Physics Revision - PMT (physicsandmathstutor.com)</p>
Waves - Triple Physics Content Only	<p>Summary of Concepts Covered:</p> <ul style="list-style-type: none"> ➤ How we hear sound. ➤ Uses of waves in imaging, sonar ➤ Developing theories on the structure of the Earth. ➤ Concave (diverging) and convex (converging) lenses. ➤ Light and Colour 	<p>Understand how we hear and all about sound waves by watching this video: GCSE Physics - Sound Waves and Hearing #73 - YouTube</p> <p>What is sound used for? Imaging and sonar and 2 examples you need to know. Watch the video here for more information: GCSE Physics - Ultrasound #74 - YouTube</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: The Earth - Pass My Exams: Easy exam revision notes for GCSE Physics</p> <p>Practise drawing concave and convex diagrams by watching this video here: GCSE Physics - How to Draw Ray Diagrams #70 - YouTube</p> <p>Read through the website here about light and colour: Visible Light and Colours (GCSE Physics) - Study Mind</p>
Radioactivity – Triple Content Only	<p>Summary of the concepts covered:</p> <ul style="list-style-type: none"> ➤ Nuclear Radiation – Medicine ➤ Fission <p>Fusion</p>	<p>Read up about uses and risks of nuclear Irradiation - Uses and dangers of radiation - AQA - GCSE Physics (Single Science) Revision - AQA - BBC Bitesize</p> <p>Review your knowledge about fission by reading this website: Nuclear fission - Uses and hazards of radiation - GCSE Physics (Single Science) Revision - Other - BBC Bitesize</p> <p>Watch this video here about Nuclear Fusion: GCSE Physics - Nuclear Fusion #39 - YouTube</p>
Force and Pressure - Triple Physics Content Only	<p>Summary of Concepts Covered:</p> <ul style="list-style-type: none"> ➤ Pressure in a fluid. ➤ Pressure in liquids at different depths. ➤ How atmospheric pressure varies with height. ➤ Upthrust on submerged objects. 	<p>Pressure is a basic concept you covered in year 8, review this information by watching the video: What is Pressure? Physics Don't Memorise - YouTube</p> <p>What about pressure caused by fluids? Read about static fluid pressure here: What is Hydrostatic Pressure -- Fluid Pressure and Depth (edinformatics.com)</p> <p>The atmosphere causes pressure too. Review how the pressure changes due to the altitude by watching this video: GCSE Physics - Atmospheric Pressure #50 - YouTube</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: Upthrust (4.2.4) CIE A Level Physics Revision Notes 2022 Save My Exams</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"> ➤ Moments ➤ Moments and Gears ➤ Centre of Mass Practical 	<p>Moments, levers and gears is triple content only. Review the work covered by reading the BBC Bitesize website: Gears - Moments, levers and gears - AQA - GCSE Physics (Single Science) Revision - AQA - BBC Bitesize</p> <p>And watch the video available: Moments, levers and gears - AQA - Video - GCSE Physics (Single Science) - BBC Bitesize</p> <p>Also, there is a small test to complete to assess your knowledge: Moments, levers and gears test questions - AQA - GCSE Physics (Single Science) Revision - BBC Bitesize</p> <p>Watch this video on completing the centre of mass practical: Centre of Mass and Gravity GCSE Physics Required Practical - YouTube</p>