

Subject	Year 11 Physics Content Spring Term	How to support students' learning
Combined Science – AQA Trilogy	Students have now finished the content for GCSE Combined Science. They are now revising in lessons, please refer to the structured revision timetable available. Resources can be found on the OLC in addition to the following websites: GCSE Combined Science - AQA Trilogy - BBC Bitesize AQA GCSE (9-1) Physics Revision - PMT (physicsandmathstutor.com)	
Electromagnetism – Triple Content Only	Summary of Concepts Covered: ➤ The Generator ➤ Dynamos, Microphones and AC Graphs ➤ Basic Transformer	This section is triple content only, so it will not apply to every student. Review your knowledge of generators and the electromagnetic induction by watching this video here: GCSE Physics - Generator Effect / Electromagnetic Induction #81 - YouTube Review the workings of a transformer by watching the video here: GCSE Physics - How Transformers Work #82 - YouTube Practice using the equations for a transformer by watching the video here: GCSE Physics - Transformer Calculations #83 - YouTube
Space – Triple Physics Only	Summary of Concepts Covered: ➤ The Solar System and Life Cycle of Stars ➤ Satellites ➤ Red Shift, Big Bang and Dark Matter	This section is triple content only, so it will not apply to every student. 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)
Waves - Triple Physics Content Only	Summary of Concepts Covered: ➤ 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	Understand how we hear and all about sound waves by watching this video: GCSE Physics - Sound Waves and Hearing #73 - YouTube 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 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

		website: The Earth - Pass My Exams: Easy exam revision notes for GCSE Physics Practise drawing concave and convex diagrams by watching this video here: GCSE Physics - How to Draw Ray Diagrams #70 - YouTube Read through the website here about light and colour: Visible Light and Colours (GCSE Physics) - Study Mind
Radioactivity – Triple Content Only	Summary of the concepts covered: ➤ Nuclear Radiation – Medicine ➤ Fission ➤ Fusion	Read up about uses and risks of nuclear Irradiation - Uses and dangers of radiation - AQA - GCSE Physics (Single Science) Revision - AQA - BBC Bitesize Review your knowledge about fission by reading this website: Nuclear fission - Uses and hazards of radiation - GCSE Physics (Single Science) Revision - Other - BBC Bitesize Watch this video here about Nuclear Fusion: GCSE Physics - Nuclear Fusion #39 - YouTube
Force and Pressure - Triple Physics Content Only	Summary of Concepts Covered: ➤ Pressure in a fluid. ➤ Pressure in liquids at different depths. ➤ How atmospheric pressure varies with height. ➤ Upthrust on submerged objects.	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 What about pressure caused by fluids? Read about static fluid pressure here: What is Hydrostatic Pressure -- Fluid Pressure and Depth (edinformatics.com) The atmosphere causes pressure too. Review how the pressure changes due to the altitude by watching this video: GCSE Physics - Atmospheric Pressure #50 - YouTube 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

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Moments and Gears - Triple Content Only	Summary of Concepts Covered: ➤ Moments ➤ Moments and Gears ➤ Centre of Mass Practical	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 And watch the video available: Moments, levers and gears - AQA - Video - GCSE Physics (Single Science) - BBC Bitesize 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 Watch this video on completing the centre of mass practical: Centre of Mass and Gravity GCSE Physics Required Practical - YouTube

