

Subject	Year 11 Physics Content Spring Term	How to support students' learning
Electricity in the Home	Summary of Concepts Covered: <ul style="list-style-type: none"> ➤ Calculating the amount of electrical energy transferred. ➤ Electrical Appliances and Efficiency ➤ The National Grid 	This section of electricity in the home will draw on your year 9 content. Recap what you have covered in lesson by reading through this website: Electrical appliances - Work, power and efficiency - AQA - GCSE Physics (Single Science) Revision - AQA - BBC Bitesize The National Grid is a vital part of your everyday life. Review what you have learnt in lesson by reading through the website and completing a multiple choice quiz: GCSE Electricity Revise its Transfer via the National Grid (educationquizzes.com)
Electromagnetism	Summary of Concepts Covered: <ul style="list-style-type: none"> ➤ Magnetic forces and field ➤ Magnetic fields of electric currents ➤ The Motor Effect 	Expand your knowledge on magnets and electromagnets by reading through this website: Poles of a magnet - Magnetic fields - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize Complete the short quiz to test your knowledge: Magnetic fields test questions - AQA Trilogy - GCSE Combined Science Revision - BBC Bitesize Current flowing through a conductor creates a magnetic field. You need to know how this relates to the motor effect. Read through the website here: What is an electromagnet? - Electromagnets and transformers - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize Learn about Fleming's left hand rule by watching this video: Electromagnets and transformers - AQA - Video - GCSE Combined Science - BBC Bitesize Test your knowledge by completing this short quiz: Electromagnets - AQA test questions - AQA Trilogy - GCSE Combined Science Revision - BBC Bitesize
Electromagnetism – Triple Content Only	Summary of Concepts Covered: <ul style="list-style-type: none"> ➤ 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

		<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 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>Read up about uses and risks of nuclear Irradiation - Uses and dangers of radiation - AQA - GCSE Physics (Single Science) Revision - AQA - BBC Bitesize</p>

	Fusion	<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>
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