

Subject	Year 11 Physics Content Autumn Term	How to support students' learning
Electricity	<p>Summary of Concepts Covered:</p> <ul style="list-style-type: none"> ➤ Current and Charge ➤ Ohm's Law and Resistance ➤ Series Circuits ➤ Parallel Circuits – Required Practical ➤ Thermistors and LDRs ➤ Component Characteristics (Lamp, Fixed Resistor and Diode) – Required Practical 	<p>If you are studying the combined course you will start your topic on Electricity at the end of year 10.</p> <p>Review the concept of current and charge covered in lessons by reading through the key information on the website here: Electrical charge and current - Electric circuits - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize</p> <p>Ohm's law is a vital rule and equation that has been covered in lesson. You may have completed a practical on the equation. Review the equation and practise using it by completing some questions here: Ohm's Law and resistance test questions - National 5 Physics Revision - BBC Bitesize</p> <p>Series circuits were covered in year 7/8 at a basic level. You are now expected to use the rules to solve a variety of questions. Recap the information here: Series circuits - Electric circuits - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize</p> <p>And for parallel circuits: Parallel circuits - Electric circuits - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize</p> <p>Required Practical: Investigating Resistance (2.1.4) AQA GCSE Physics Revision Notes 2018 Save My Exams This is another required practical you will have to complete. Read through the information on this website.</p> <p>Thermistors and LDRs - Resistors, lamps and diodes - GCSE Physics (Single Science) Revision - Other - BBC Bitesize Please read this website about Thermistors and LDRs. This is a small section of the topic, however it can be linked in with series and parallel circuits.</p> <p>The required practical on component characteristics is very important. Review what you have covered in lesson by watching this video: Testing Components (I-V Characteristics) - GCSE Science Required Practical - YouTube and information to your notes using</p>

		<p>this website too: Required Practical: Investigating I–V Characteristics (2.1.10) AQA GCSE Physics Revision Notes 2018 Save My Exams</p>
Electricity in the Home	<p>Summary of Concepts Covered:</p> <ul style="list-style-type: none"> ➤ Alternating Current ➤ Plugs, earthing, fuses and circuit breakers as safety measures with electrical circuits. ➤ Electrical power 	<p>Electricity in the home is a very important topic as you will be familiar with some concepts already taught. Recap your knowledge by reading through the website here: Household electricity - Mains electricity - AQA - GCSE Physics (Single Science) Revision - AQA - BBC Bitesize</p> <p>Practice using the electricity equations by completing some questions from this website: Electric Power Questions and Answers Study.com Check your answers afterwards.</p>
Static Electricity – Triple Only Content	<p>Summary of Concepts Covered:</p> <ul style="list-style-type: none"> ➤ Electrical Charges and Fields 	<p>This is a triple physics section of the course, so it does not apply to all students. Review your knowledge of electrical charges and fields by watching this short video here: GCSE Physics - Electric Fields #24 - YouTube</p>