



Subject	Year	Term												
Combined Science	10	2												
Topic														
Physics - Electricity														
Content (Intent)														
Prior Learning (Topic) Particle Model of Matter & Atomic Structure														
<p>Unit 2: Electricity</p> <p>Students will revisit electricity, identifying parts of circuits using symbols and the different types of circuits. They will learn about new rules for electricity circuits. A variety of components will be used for the first time such as diodes and thermistors. Required investigations into a variety of components will be completed to support the theory learnt. Students will have a better appreciation of mains electricity in the UK.</p>														
Future Learning (Topic) Forces														
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)													
<p>Knowledge</p> <ul style="list-style-type: none"> Knowing the difference between p.d. and current, using new formula to make predictions I-V graphs for an ohmic conductor, lamp, and diode The structure of the plug and its purpose 	<p>Key Piece of work (Homework)</p> <p>Pupils given a percentage and formative feedback provided for a targeted piece of homework so that they can respond to the teacher and make progress in the topic.</p>													
<p>Skills</p> <ul style="list-style-type: none"> Applying new formula in familiar and unfamiliar contexts. The application of collected data into graphs and for analysis. Standard Practical Skills such as reading measuring equipment with accuracy and precision, taking repeats, following methods. 	<p>End of topic test</p> <p>Pupils given a percentage, formative feedback and GCSE equivalent grade. Formative feedback provided.</p> <p>The Year 10 Mock in Spring will cover topics on the Particle model of matter, radioactivity and energy (from Y9)</p>													
How can parents help at home?														
<p>Ensure all class booklets are complete and homework submitted on time</p> <p>Assist in ensuring the active use of the EDUCAKE online learning platform where each pupil is given a personal log on from their teachers.</p> <p>Encourage pupils to revise for tests and exams and to create revision resources such as flash cards and posters.</p> <p>Ensure all pupils have all their resources required for science lessons, including booklets, pens and calculators</p>														
Helpful further reading/discussion (including Reading and Vocabulary Lists)														
<p>Reading</p> <p>AQA revision guides</p> <p>AQA revision cards</p> <p>EDUCAKE online learning platform.</p> <p>GCSE POD</p>	<p>Vocabulary Lists:</p> <table> <tbody> <tr> <td>Resistance</td> <td>Coulomb</td> </tr> <tr> <td>Mains</td> <td>Charge</td> </tr> <tr> <td>National Grid</td> <td>P.d.</td> </tr> <tr> <td>Static</td> <td>Ohm</td> </tr> <tr> <td>Electric Fields</td> <td>Thermistor</td> </tr> <tr> <td>Diode</td> <td>LDR</td> </tr> </tbody> </table>		Resistance	Coulomb	Mains	Charge	National Grid	P.d.	Static	Ohm	Electric Fields	Thermistor	Diode	LDR
Resistance	Coulomb													
Mains	Charge													
National Grid	P.d.													
Static	Ohm													
Electric Fields	Thermistor													
Diode	LDR													