

Science Year 9 Electricity and magnetism

Year group	Subject: (Title of topic)
Prior learning- linked to National curriculum	<p>Year 4:</p> <p>Pupils should be taught to: identify common appliances that run on electricity construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit recognise some common conductors and insulators, and associate metals with being good conductors</p> <p>From KS2 and Y7 Students should be able to attempt the following:</p> <ul style="list-style-type: none"> • Can build a circuit and identify some circuit symbols. • Describe how current flows around a series and parallel circuit. • Describe what voltage is and how it works. • Describe that static electricity is a force and give some examples.
Covid gaps	<p>Practical work around circuits may have been limited so it's important to recap circuit components and how to build series and parallel circuits. Also recap the difference between current and voltage using circuits.</p>
Rationale	<p>Builds on basics learnt from y7 about basic circuits and prepares them for starting the GCSE course as students have many misconceptions on this topic.</p>
Vocabulary:	<p>Keywords - W 15.1 Keywords Electricity and magnetism.docx</p>
Cultural Capital:	
Key assessments- name the assessments	<p>Big question (6 mark question) Mid point W 15.7 Question led lesson.docx</p> <p>A range of multiple choice, short answer and a long answer question.</p> <p>P1 Electricity Test.pdf</p>
What do children know/ can do now (EDSM)	<p>Test marks-</p> <p>Emerging - 20%</p> <p>Developing - 40%</p> <p>Securing - 60%</p> <p>Mastered - 80%</p>

