

Subject	Y	ear	Term		
Science	11		3		
Торіс					
11P3 Magnetism					
Content (Intent)					
Prior Learning (Topic) 8P1 Elect	ricity and Magr	netism			
<ul> <li>Draw and describe the shape of Link density of field lines to strer</li> <li>Describe the structure of an electer</li> <li>Explain how an electromagnet w</li> <li>Describe how the strength of an</li> <li>Describe Fleming's Left Hand Rulwire in a magnetic field</li> <li>Describe the structure of an electer</li> <li>Explain how an electric motor we</li> <li>Describe the function of transfor</li> <li>HT: Know and use the transform</li> </ul> Future Learning (Topic) A level How will knowledge and skills be (Implementation) Demos: compasses around wires/coil	ngth of magnetic fie tromagnet orks electromagnet can le and use it to pred tric motor orks mers and how the er equation <b>topic 7 - Fields</b> e taught?	be changed dict the direction of help reduce energy How will your & recorded (In - 2 x standard	the force on a current-carrying y losses in the national grid understanding be assessed npact) homeworks (Level given.		
<ul> <li>FLHR demo with rolling wire and magnet. Large model motor. Model of the national grid.</li> <li>Practical work: Field around a permanent magnet. Building and testing electromagnets. Building motors. Building transformers.</li> <li>Written: Notes and completed worksheets in exercise books.</li> </ul>		Written feedback. Response expected.) -1 x end of topic test (Level given. Verbal feedback to class and individuals.)			
How can parents help at home	How can parents help at home?				
Look at the topic specific resour Use appropriate youtube chann freesciencelessons. Take an interest! Ask your childr learning. Helpful further reading/discuss	ces on the VLE els: cognito, pr ren what they ł				
			Coroore Links		
<b>Reading</b> Compass by Alan Gurney Longitude: The True Story of a Lone Genius Who Solved the Greatest Scientific Problem of His Time The Invisible Rainbow: A History of Electricity and Life	Vocabulary Lists Permanent magnet Ferrous Soft iron Field lines North and south Iron core Turns		<b>Careers Links</b> Physicist Engineer Environmental engineering Energy companies		

Coil	
Current	
Force	
Split ring commutator	
Potential difference	
Primary and secondary coils	
Thermal/internal energy	