Current Electricity

Topic Checklist / Progression Check

I know this colour green	I'm not sure colour yellow	I don't know this colour red

Subtopics and Learning Objectives	Start	End
Current		
- Recognise and draw circuit symbols		
- Describe what a current is and how it is measured		
Series and Parallel & Core Practical – Voltage, Current and Resistance Exp 1		
- State what is meant by a series circuit and a parallel circuit		
- Describe the differences in how current behaves in a series and parallel circuit		
- Describe how changing the number or type of components in a circuit affects the current		
- Investigate how current flows in a parallel circuit		
Models		
- Design a model to help explain electric circuits		
- Evaluate a physical model		
Voltage and Resistance & Core Practical - Voltage, Current and Resistance Exp 2		
- Describe what voltage and resistance are and how they are measured		
- Recognise the relationship between current and voltage		
- Describe the relationship between resistance and current		
- Investigate how to calculate the resistance of a component		
Using Electricity		
- Describe some safety precautions to be followed when using electricity		
- Recall how the different wires are connected in a plug		
- Describe the job that fuses and circuit breakers do		
- Explain how a fuse works		
Electromagnets		
- Describe an electromagnet and its magnetic field		
- Describe how the strength of an electromagnet can be changed		
- Describe some applications of electromagnets		
Core Practical – Investigating Electromagnets		
- Investigate the variables that affect the strength of an electromagnet		

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