

Cwmfelin Primary School Medium Term Planning

Term: Autumn 2	Class: 6	AOLE Focus: Science & Technology
Inquiry: Bright ideas	Question: How do circuits make things work?	
Rationale		
This inquiry explores the fascinating world of electricity and magnetism , encouraging learners to investigate how circuits work, how components interact, and how magnetic fields influence the world around us. Through hands-on experimentation , critical thinking , and problem-solving , pupils develop a deeper understanding of scientific principles and their real-world applications. The inquiry supports the Science and Technology Area of Learning and Experience , particularly the statements of what matters around the world around us , forces and energy , and designing and engineering solutions . It also promotes digital competence , collaborative learning , and independent enquiry , helping learners become confident, curious, and capable scientific thinkers.		
Knowledge (Knowledge that)	Skills (Knowledge how)	Experiences (Knowledge of)
I know...	I know how to...	I have ...
<ul style="list-style-type: none">The difference between series and parallel circuitsHow different circuits are powered and the effect of altering the components within them.What magnetic fields are and their effect on objects and the World.	<ul style="list-style-type: none">Plan, undertake and draw conclusions from practical scientific investigations.Create and debug a range of electrical circuits.Make predications and justify opinions based on previous learning.	<ul style="list-style-type: none">Created and experimented with practical circuits.Disassembled unwanted electrical items to see how they work.Drawn accurate conclusions from practical scientific experiments involving electricity and magnetism
Cross-curricular opportunities:		Vocabulary:
Literacy: Writing conclusions which include scientific vocabulary.		Electricity, circuit, resistance, series, parallel, magnetism, prediction, conductor, insulator
Numeracy: Graphing data from investigations to enable conclusions to be drawn.		Immersion activity:
DCF: Create group presentations with hyperlinks for younger pupils to explain the concepts of electricity and magnetism.		Circuit creation activity to explore circuits
		Showcase:
		Create a Christmas card / decoration / sign that uses an electrical circuit. Present to another class and explain how it works.