

ELECTRICITY



Physics

Year 4

National Curriculum Objective

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.

Key Vocabulary

circuit	cell	switch	wire
bulbs	buzzer	battery	loop
series	insulator	electrical	variables
conductor	electricity	hazard	power

Substantive – Subject Knowledge Bigger Picture – Support words

Glossary

conductor	
insulator	

Question driven outcomes for knowledge:

	Pupil	Teacher
Can you name some common appliances that run on electricity?		
How can we construct a simple series circuit and what are the basic parts?		
Investigate whether a bulb will light in a circuit that is incomplete?		
Which metals are good conductors? What are good insulators and why are they needed?		
What is the purpose of a switch in a circuit and how does it operate?		