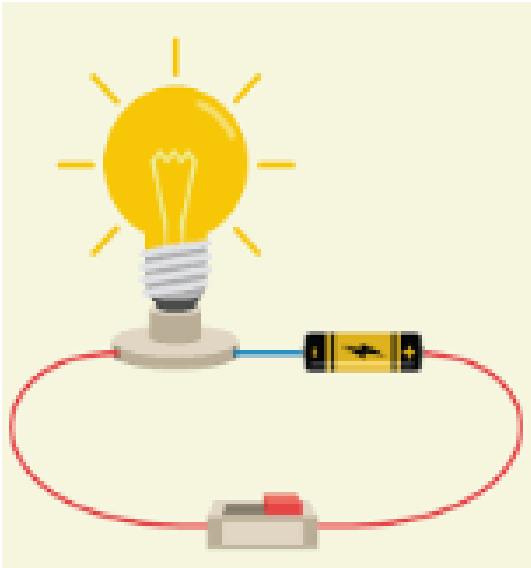


Year 4 Electricity

Important Questions

1	What is electricity?	
2	What are the different electrical components called?	
3	Is a bulb always the same brightness?	
4	What is an electrical conductor and electrical insulator?	
5	How is electricity dangerous?	



Key Skills

1	To identify common appliances that run on electricity.	
2	To make a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.	
3	To 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.	
4	To recognise some common conductors and insulators, and associate metals with being good conductors.	
5.	To recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.	

Key Vocabulary

1	Electricity	Electricity is the flow of tiny particles called electrons and protons. It can also mean the energy you get when electrons flow from place to place.	
2	Electrical component	An electrical component is any part of a circuit such as bulbs, motors, wires, buzzers and switches.	
3	Conductor	Some materials allow electric current to flow more freely than others. These materials are called conductors.	
4	Insulator	Some materials are resistant to the flow of electric current. These materials are called insulators.	
5	Circuit	A circuit is a complete path around which electricity can flow. It must include a source of electricity , such as a battery.	

Working Scientifically

1	To observe patterns, for example, that bulbs get brighter if more cells are added, that metals tend to be conductors of electricity.	
2	To be able to plan and carry out an experiment to see how to change the brightness of a bulb.	