



Electricity



What is powered by electricity in my environment?



Why do I need to be careful when working with electricity?



Can I construct a simple circuit, identifying and naming its basic parts?



Can I draw the circuit I have created using my own pictorial representations?



Can I predict whether or not a lamp will light in a simple circuit? Why do I think this, do I understand the need for a complete loop with a battery?



Do I understand the importance of the flow of electricity in a circuit and how breaking this flow by adapting the circuit can have an impact on the circuit stopping a bulb lighting? (Using a switch)



Can I create and adapt my own experiment to explore, by test, materials that are conductors and insulators?

Investigation what conducts electricity?

Big Question

What impact do conductors and insulators have on an electrical circuit?

Assessment Question / Task

Can I draw a circuit that would light a bulb and uses a resistant material as a switch?

Key Vocabulary

I will use

Appliances, electricity, electrical circuit, cells, wires, bulbs, switches, motors, buzzers, battery, loop, conductors, insulators, components, precautions and safety

What to revisit?

The food chain circuit—Year 2 and Year 3

Vertical Threads

Adaption, Exploration