

What are we learning about?

In this topic we are going to look at electricity and how it powers the world around us! We will look at current electricity (circuits and wires), but also mains electricity and things you will need to do in your life, such as wiring plugs.



Why are we learning about it?

The modern world runs on electricity. Imagine your life without it and it seems impossible. As with most ideas in science, understanding it helps explain why it is so important, and that it is vital we don't take it for granted!



What new KNOWLEDGE will I gain?

Definitions and equations for current, potential difference, resistance, and how they are used in circuits. Control circuits and IV graphs, mains electricity, wiring plug, the National Grid and electrical appliances.



Electricity: Learning Journey

How does this build on the SKILLS I already have?

You can already use basic maths functions – this topic will give you the opportunity to practice and build on this. You have also spent lots of time learning how to write a scientific method, which you will get a chance to refine during this topic.



What new SKILLS will I develop?

There are a lot of maths skills in this topic, from simple multiplication up to rearranging equations. By the end of this topic you will have the skills to do all of them, helping you in science and in maths. You will also be writing methods for practicals, improving your English skills!



How does this build on the KNOWLEDGE I already have?

In KS3 you learnt about the basics of electricity. We are now revisiting it in more detail, with more mathematical explanation. This means that not only can we state and use electrical values, but we can also predict and calculate changes.