

Electricity unearthed

Learning objectives

- Understand that electricity is generated and then is transported to our homes
- Understand that a circuit will only work if it is complete
- Recognise that some materials are electrical conductors, some are electrical insulators
- Understand the effects of adding components to circuits
- Gain an appreciation of how an electric circuit can be drawn using internationally recognised symbols
- Understand that there are a variety of ways we can generate electricity and that some of these are renewable

Workshop content - students will:

- Explore some of the ways we can generate electricity
- Deepen their understanding of circuits by building a human circuit
- Sort familiar objects into electrical conductors and electrical insulators
- Investigate circuits with a hands-on activity
- Watch an amazing demonstration using a Van de Graff generator

National Curriculum links

Sc1 Scientific enquiry

Sc3 Materials and their properties

1) Grouping and classifying materials

c. That some materials are better electrical conductors than others

Sc4 Physical Processes

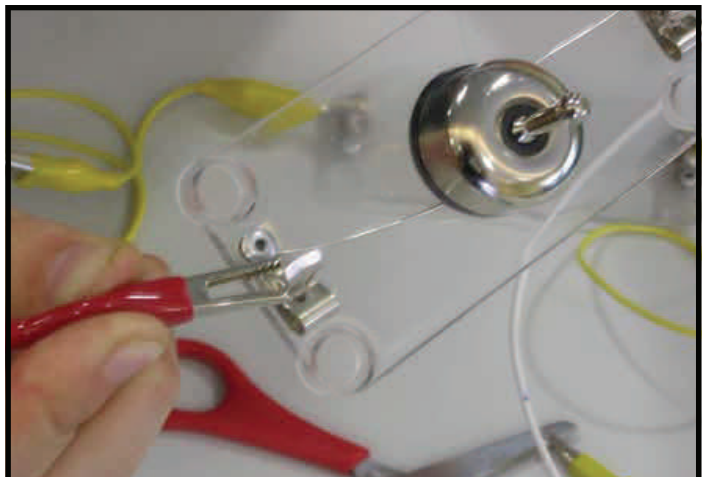
1) Electricity

- To construct circuits, incorporating a battery or power supply and a range of switches, to make electrical devices work
- How changing the number or type of components in a series circuit can make bulbs brighter or dimmer
- How to represent series circuits by drawings and conventional symbols

Picture gallery



Explore how electricity is generated



Students work together to build a circuit