

Day 3 – Electricity (3) – Conducting Electricity & Switches

Learning: Why wires are metal and why are switches plastic?

To make the insect probe work what do you need to do? Complete the circuit

Recap from yesterday's lesson, reinforcing the principle of a circuit.

Explain that they are going to test a few items to see if they can complete the circuit.

Experiment 1 –

Need:

1. Electrical Bug
2. Forks x6
3. Plastic Spoons x6
4. Pencil x6
5. Metal chopsticks x6
6. Aluminium Foil x6
7. Paper x6

Method:

Use insect probe to see what materials conduct electricity – Items: Aluminium Foil, Plastic spoon, metal fork, paper.

Discuss what materials complete the circuit?

What are wires made of? Why are they made from metal?

Show them a piece of wire, what is covering the wire, why is it plastic? Discuss

Experiment 2 – Switch Experiment

1. Using the partially completed circuits, complete the circuit making a simple switch out of paper-clips to light up the LED.
2. Use Circuit from yesterday and add a simple switch to it.

Discuss about switches, how they work

Craft 1 – Paper Robot & Craft 2 – Police Car

Paper Circuits
Monster Circuit

