

Max's Mighty Electricity Investigation

Learning objective: To identify common appliances that run on electricity and construct a simple series circuit.

Use this writing frame to describe how we use electricity in our daily lives and how to build a simple circuit. Use the word bank to help you link your ideas together.

Max the monkey has noticed that electricity is used everywhere in our homes to make our lives easier and more exciting.

Word bank: mains electricity · battery-powered · circuit · component · conductor · insulator · complete loop · therefore · consequently · in addition

1. Introduction: Describe the difference between mains electricity and battery power. Start by saying: 'Electricity can be supplied in two main ways...' (2 marks)

2. Appliance Audit: List three electrical appliances you use at home and explain whether they are plugged into the wall or use batteries. Start by saying: 'In my house, I use several items that require electricity, for example...' (3 marks)

3. Building a Circuit: Explain the parts needed to make a bulb light up. Start by saying: 'To create a simple circuit, you need a power source, wires, and a bulb. These must be connected in a...' (3 marks)

4. Safety First: Explain why we must be careful with electricity. Start by saying: 'It is very important to stay safe around electricity because...' (2 marks)

5. Conclusion: Summarise why electricity is important to us. Start by saying: 'In conclusion, we rely on electricity to...' (2 marks)

Extension challenge: Draw a labelled diagram of a simple series circuit including a battery, a bulb, and a switch. Can you show where the current would flow?