

Electricity Assessment: Max the Math Monkey's Circuit Challenge

Learning objective: To identify appliances, construct simple circuits, and understand how to keep safe when using electricity.

Read each question carefully. Use the word bank to help you spell tricky words. Write your answers in the spaces provided.

Max the monkey is helping his friends learn about electricity. He knows that some things use batteries and some things plug into the wall. He is very careful to keep his paws dry and safe!

Word bank: battery · bulb · wire · switch · mains · circuit · conductor · insulator

1. 1. Max has a flashlight. Does it use a battery or the mains electricity? Tick one box. [] Battery [] Mains (1 mark)

2. 2. Name two things in your house that use electricity from the mains. (2 marks)

3. 3. To make a bulb light up, we need a complete loop. What is the name of this loop? (1 mark)

4. 4. Draw a line to match the part to its job:

Wire --- [Helps the light turn on and off]

Switch --- [Provides power to the circuit]

Battery --- [Carries the electricity] (3 marks)

5. 5. Look at the circuit. If the wire is broken, will the bulb light up? Explain your answer using the word 'circuit'. Sentence starter: The bulb will not light up because... (3 marks)

6. 6. Max wants to test if objects are conductors. Name one object that is a conductor and one that is an insulator. (2 marks)

7. 7. Why is it dangerous to touch a plug socket with wet hands? Write two reasons to stay safe. (3 marks)

8. 8. Extended Writing: Max is building a new circuit. Write a list of instructions for him to follow to make his bulb glow. Include the parts he needs and a safety tip. (5 marks)

Draw: In the box below, draw a simple circuit that includes one battery, one bulb, and one switch connected by wires.



Extension challenge: Total: /25. Challenge: Why might a bulb stop working even if the circuit is complete?