

Name: \_\_\_\_\_ Date: \_\_\_\_\_



## Working with Electricity

Think of 2 ways to stay safe around electricity

1. \_\_\_\_\_

2. \_\_\_\_\_

Items that use electricity from the mains	Items that use electricity from batteries

Challenge: What's the difference between mains and battery power?

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## Circuits

Draw a circuit that works

Explain why it works

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Draw a circuit that doesn't work

Explain why it doesn't work

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Challenge: Can you use symbols to draw your circuits?



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## Circuits using PV modules

You will need:

- battery
- motor
- two PV cells
- 3 insulated wires with crocodile clips
- a propeller

Make a circuit with a battery so that the electric motor spins a propeller. Now draw it.

Make a circuit with the photovoltaic cells so that the electric motor spins the propeller. Now draw it.

Challenge: Explain how solar panels or PV's can be used to make a circuit. What do they replace?

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