

Week 7 Topic task

LI: To explain how electricity powers a household item.

Success Criteria:

I can identify scientific symbols.

I can draw a complete closed circuit using the correct symbols.

I can record my ideas using scientific vocabulary: *flow, electricity, cell, bulb, wires, conductor, insulator, wires, voltage, and energy.*

This half term, out topic for science is 'Electricity'.
You have learnt about electricity in Years 2 and 4.

Task 1

Make a list of items that run on electricity. Ensure there is a variety of energy sources (solar, mains, battery).



What do all these items have in common?

How are they powered?

Where do they get their energy?

How does the electricity flow through the appliances?

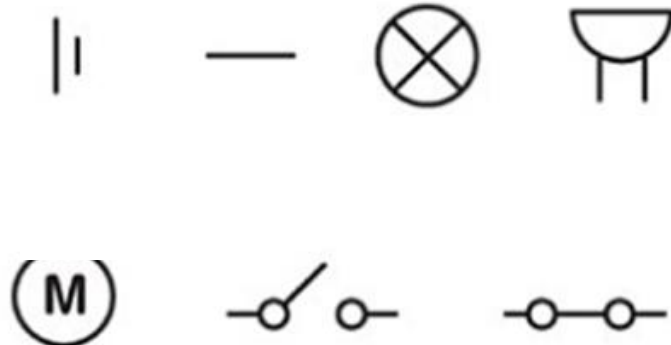
What would prevent the flow of electricity?

How safe are these sources of energy? What hazards can they have?

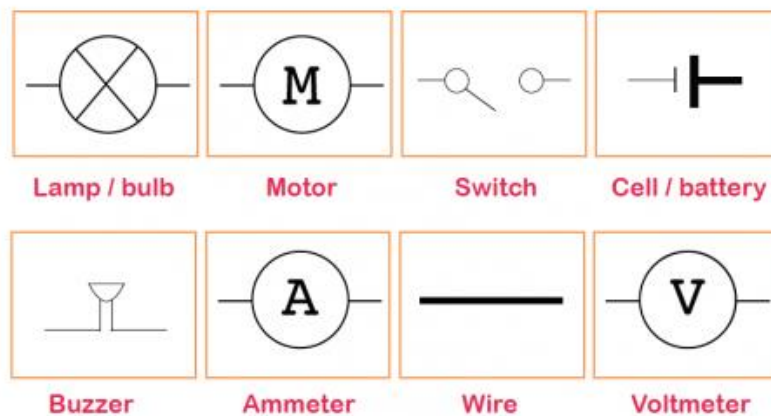
Task 2

<https://www.bbc.co.uk/bitesize/topics/zq99g6f/articles/zs7q4j6>

1) Can you identify these symbols? Can you draw a closed circuit?



2) Can you find out what the symbols are below that you do not recognise?



Task 3

- 1) Using your previous experience of making simple circuits in both Year 2 and Year 4, draw the circuit for this household item (when the doorbell is pushed).

What item from above is needed to make the doorbell make a sound?



- 2) Write an explanation to match your circuit using scientific vocabulary: **flow, electricity, cell, bulb, wires, conductor, insulator, wires, voltage, and energy.**