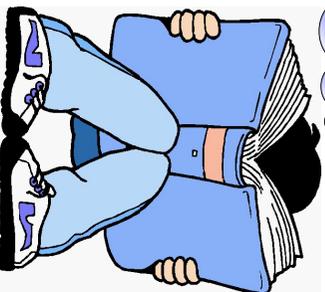
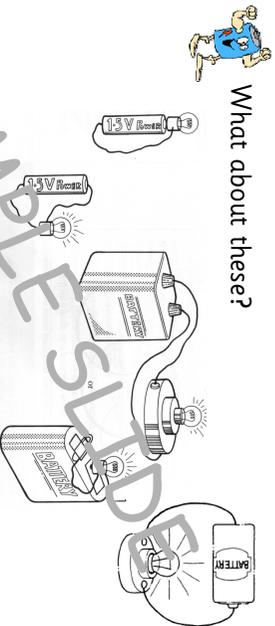


Will it  
work?

# Investigating Different Circuits



What about these?



Will the bulb light up if you don't use crocodile clips at the end of the wire? What happens if you use bare wire ends?

[Will the bulb light up interactive Link](#)



### Unit 2F: Using electricity Section 5: Investigating different circuits

**Objectives** – Children should learn:

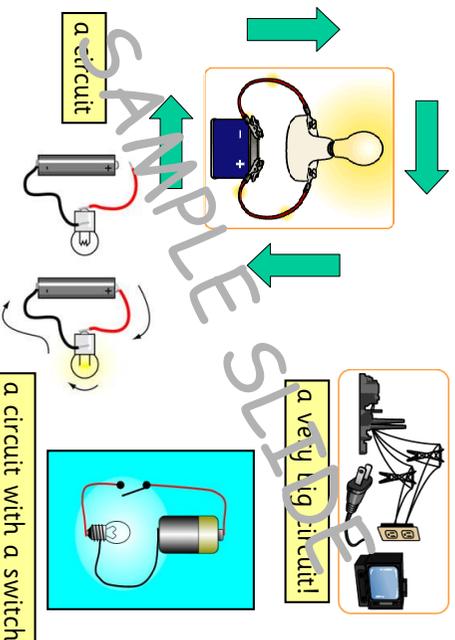
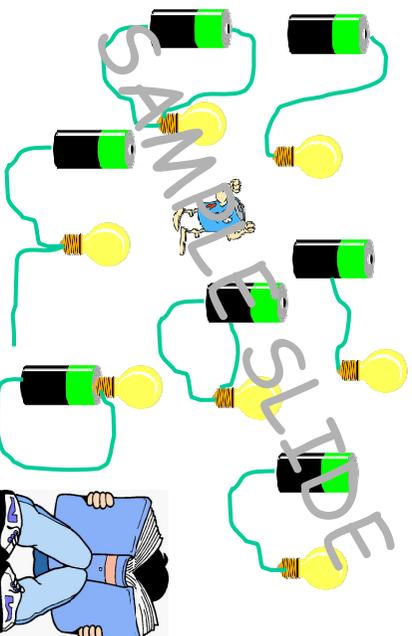
- that an electrical device will not work if there is no battery or if there is a break in the circuit
- to make and test predictions about circuits that will work
- to make and record observations in drawings
- to say whether the evidence supports the predictions
- to explain what happened, drawing on their knowledge of circuits

**Activities**

- Give children examples of circuits that do not work and ask them to make them work and describe and explain how they did this. In addition, give children drawings of circuits and ask them to predict whether they will work eg by making a bulb light up. Ask children to construct the circuits to test their predictions, make a record of their results and explain what happened.

[Electric Circuits interactive Link \(revision & extension\)](#)

Can you predict which of these circuits will work?



### Unit 2F: Using electricity Section 5: Investigating different circuits

**Outcomes** – Children

- recognise simple drawings of circuits which will not work eg with connections to only one terminal of battery or a circuit with a break and explain why the bulb will not light
- interpret drawings of circuits making correct predictions of which circuits will work and explaining these eg saying this won't work because both wires are attached to the same end of the battery

**Note:**

- Some children may be ready to use more than one bulb and may use a switch.

[Electric circuits \(Ngf-cgmrw\) Link](#)