

Light a Bulb

Time: 20 minutes with an adult

You need

- ☐ One AA battery (1.5 volts)
- ☐ A small torch bulb
- ☐ Two short wires or strips of foil
- ☐ Tape, paper, pencil

Steps

- 1** Tape one wire to each end of the battery.
- 2** Touch the bottom tip of the bulb to one wire and the side of the bulb to the other wire.
- 3** Find the way that makes the bulb light up.
- 4** Draw what you did as a loop: battery, wire, bulb, wire, back to battery.

Safety: Use only small batteries. Never touch wall sockets or mains plugs.

Before you start: what do I think will happen?

My observations

Table 1. Light the bulb tries

Try	How I connected the wires	Did the bulb light? (Yes / No)	Why I think so
Try 1			
Try 2			
Try 3			
Try 4			

Think about it

What happens when the loop is broken?

Why do electricians switch the power off first?

Draw or stick your work here



Name: _____ Date: _____

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