

Electricity: building simple circuits

energy-forces

What you need: 1.5V battery with battery holder · small bulb with bulb holder · connecting wires with crocodile clips · simple switch · test materials set (metal paperclip, plastic ruler, coin, rubber, aluminium foil strip, wooden lolly stick)

Words to use

Complete loop · Conductor · Insulator

Our question

Can we build a battery, bulb and switch circuit that lights only when the switch is closed?

I predict...because...

Sort these words into Change, Measure and Keep the same

the material placed in the gap · whether the bulb lights (yes or no) · the battery · the bulb · the wires and how they connect · the size of the gap

Change – the ONE thing we change

Measure – the ONE thing we measure

Keep the same – to make it fair

Our conductor and insulator tests

Material	I predict: lights or not?	What happened

Draw and label your battery, bulb and switch loop



Lesson 20

What had to be true for the bulb to light?



What did the switch change?

