Use the equipment to make a simple circuit with a bulb that lights.

Can you name each component of the circuit?

What does each component do?

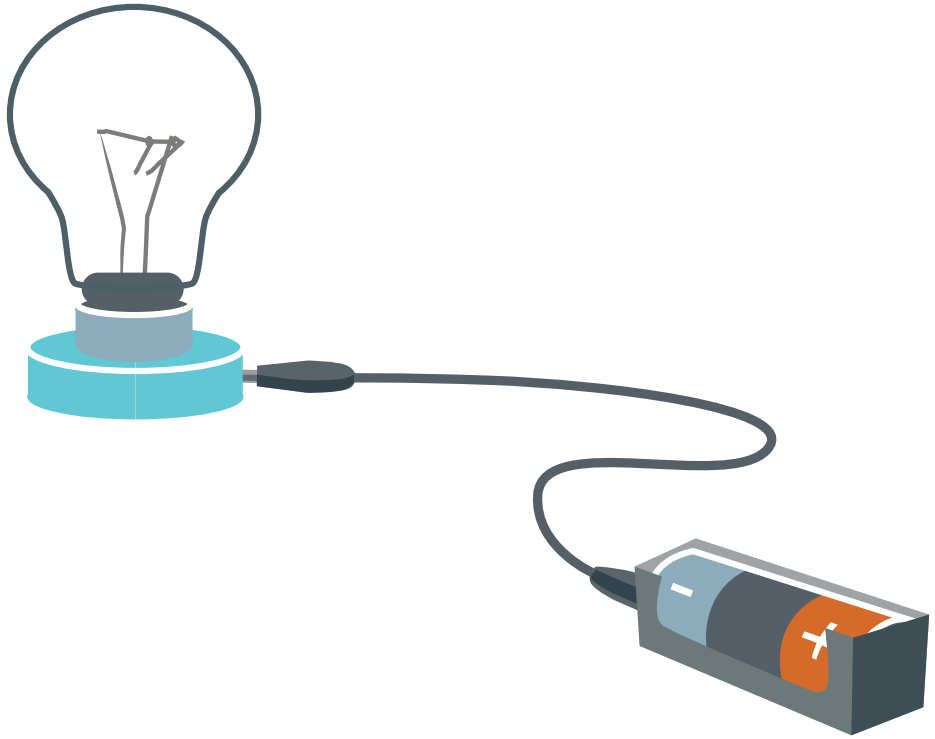
Look at the pictures of circuits.

In which circuits would the bulb be lit?

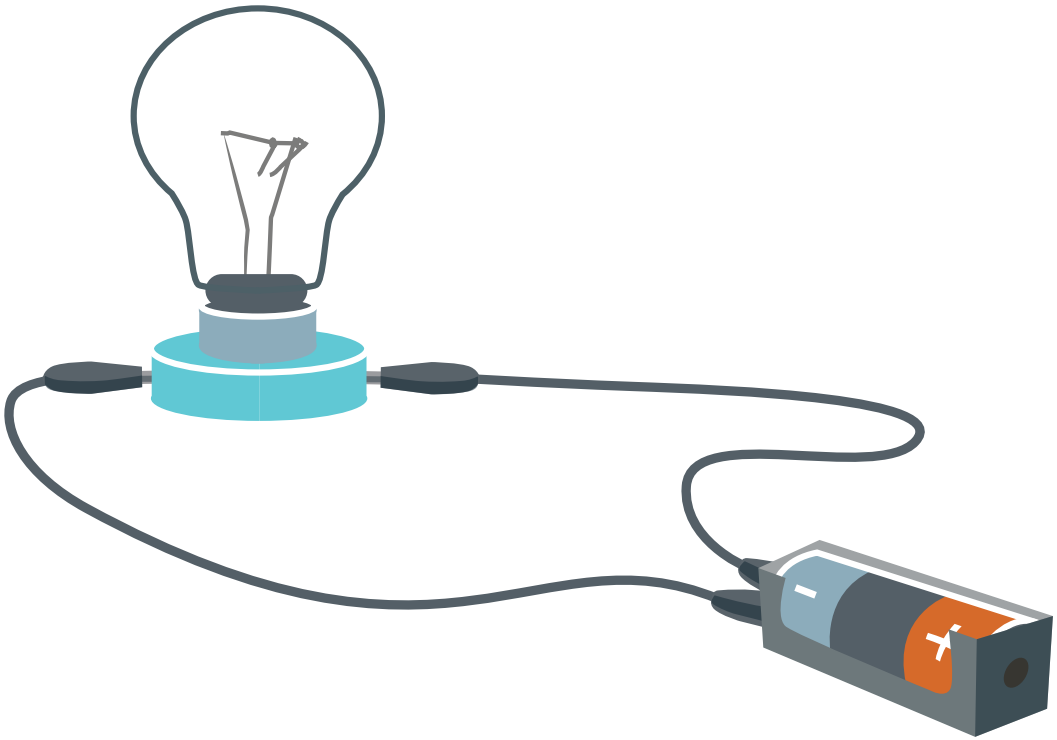
Why?

Why will the others not work?

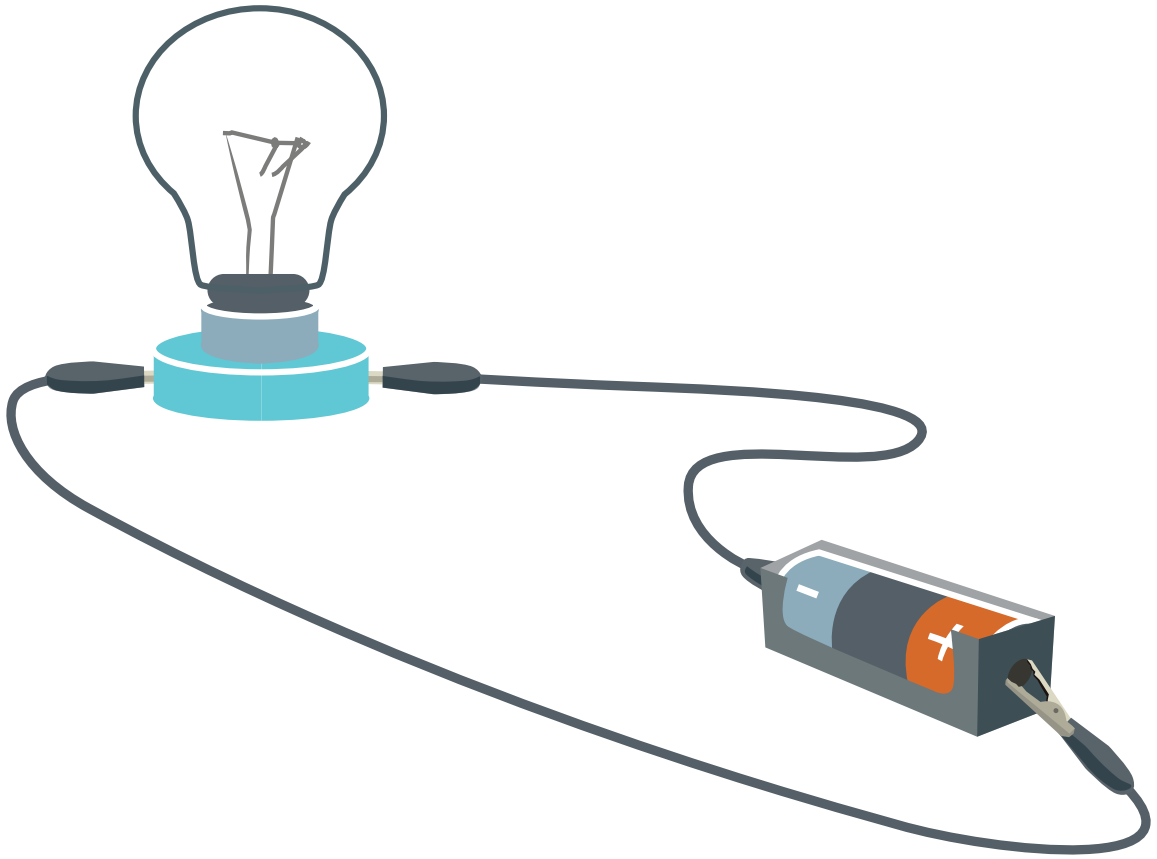
YEAR 4
ELECTRICITY – CIRCUITS AND CONDUCTORS:
02 – LIGHTING A BULB



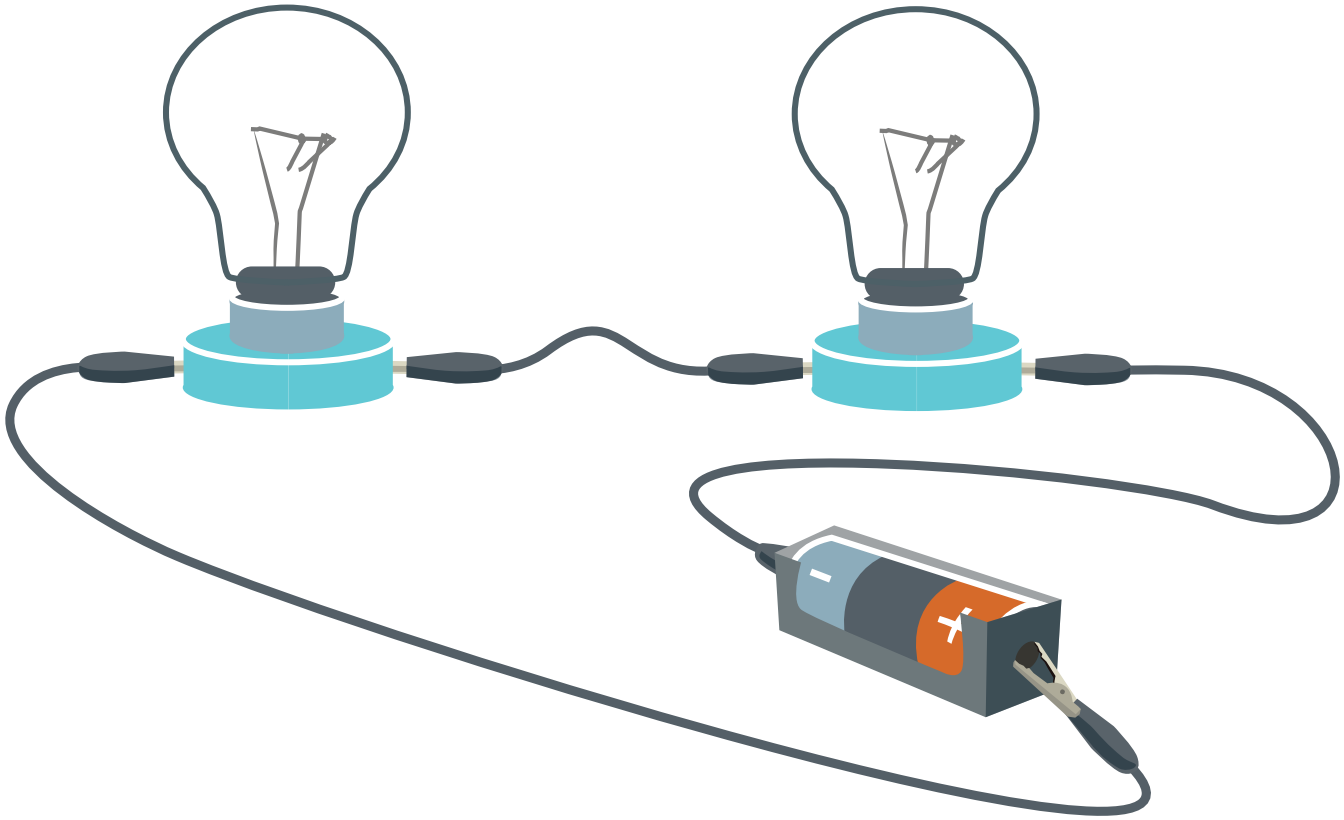
YEAR 4
ELECTRICITY – CIRCUITS AND CONDUCTORS:
02 – LIGHTING A BULB



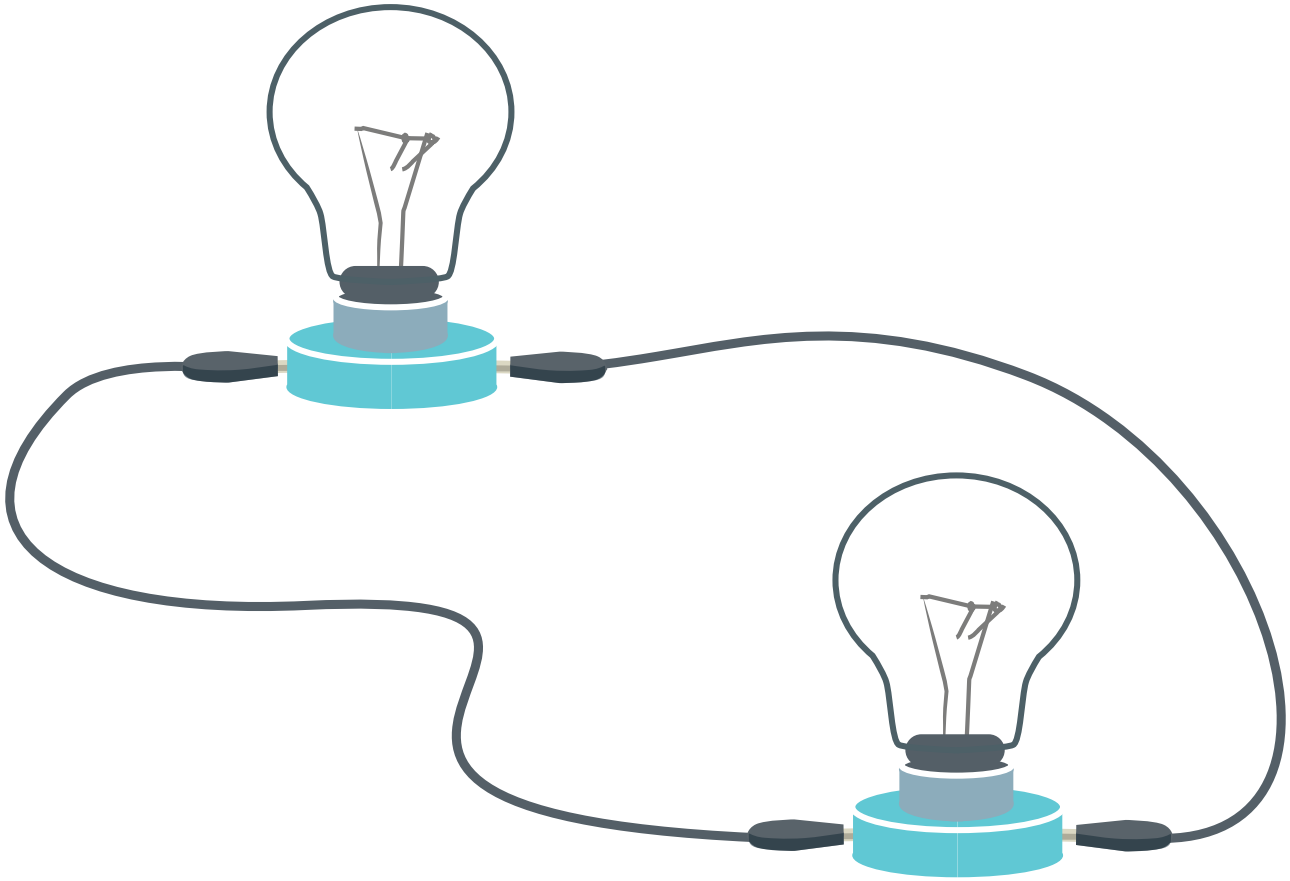
YEAR 4
ELECTRICITY – CIRCUITS AND CONDUCTORS:
02 – LIGHTING A BULB



YEAR 4
ELECTRICITY – CIRCUITS AND CONDUCTORS:
02 – LIGHTING A BULB



YEAR 4
ELECTRICITY – CIRCUITS AND CONDUCTORS:
02 – LIGHTING A BULB



Look at the circuit component.

What is this component called?

What does it do?

Where can you find these around your home?

Look at the materials.

Can you name them?

Which ones will conduct electricity?

What do we call materials that do not conduct electricity?

Look at the appliances.

Can you name them?

Can you sort them into two groups – those powered by electricity and those not?

Could we survive without electricity? Why/why not?

YEAR 4

ELECTRICITY – CIRCUITS AND CONDUCTORS:

05 – MAINS AND BATTERIES

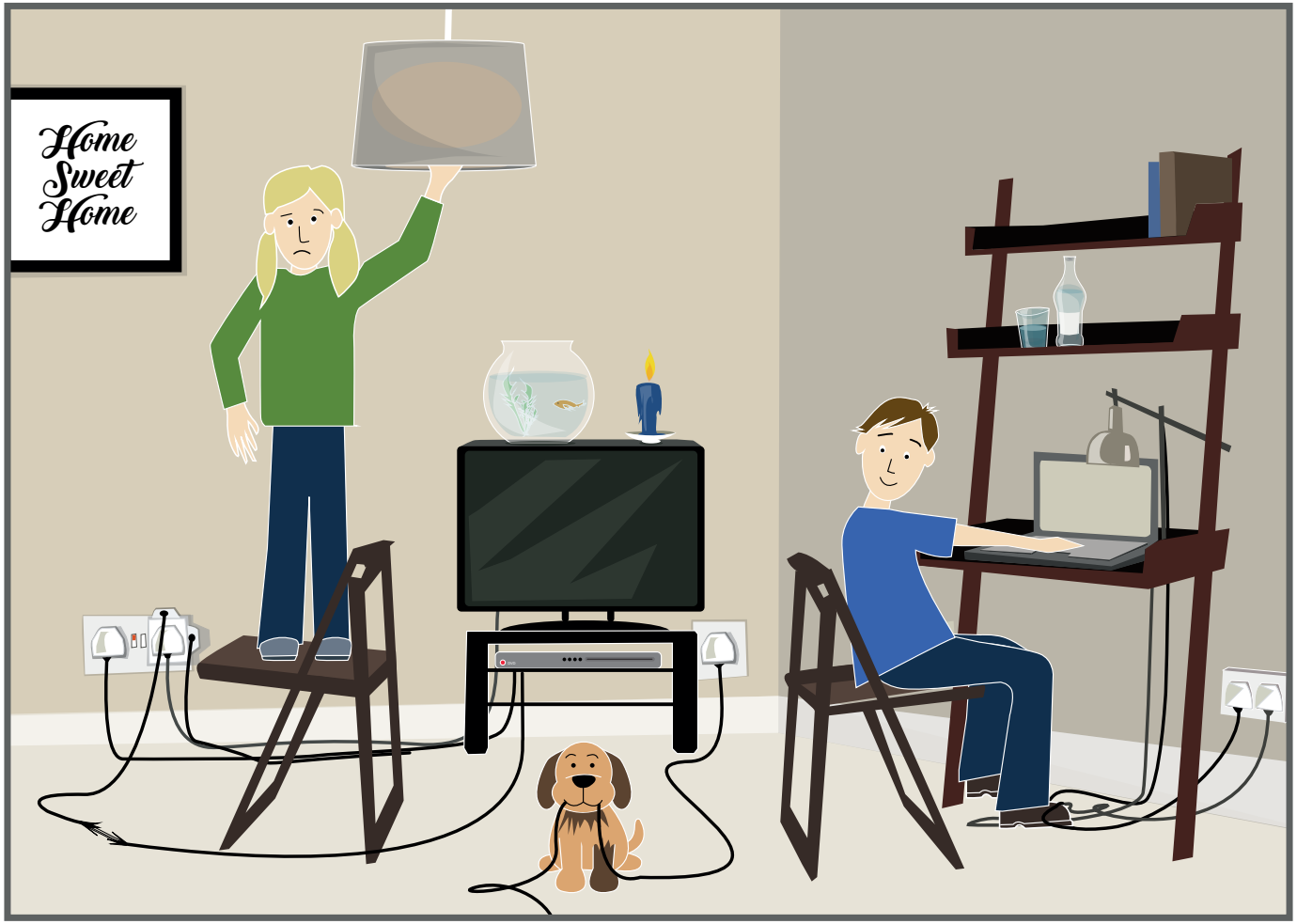
Look at this picture carefully.

What electrical hazards can you spot in this picture?

Why are they hazardous?

Can you write three rules for using mains electricity safely?

YEAR 4
ELECTRICITY – CIRCUITS AND CONDUCTORS:
06 – HAZARDS



YEAR 4
ELECTRICITY – CIRCUITS AND CONDUCTORS:
06 – ANSWERS TO HAZARDS