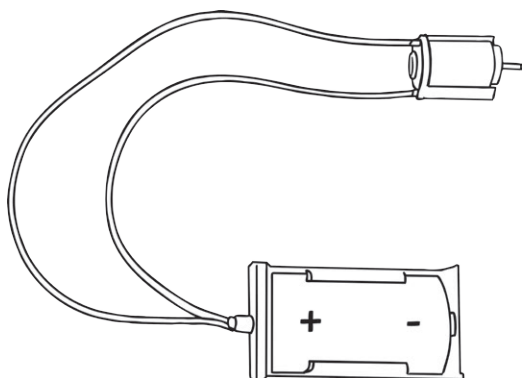


Circuits Exam Questions

1. a) Two children decided to make a model car.

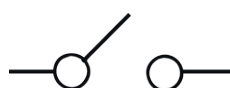
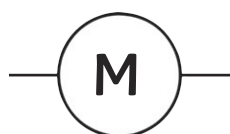
To make the car move, they connected a battery to an electric motor.



The motor did not work. Explain why.

(1)

1. b) The motor needs to be turned off with a switch. Use the three symbols below and your knowledge to draw a circuit diagram.



(1)

1. c) Plugs are made with a plastic casing to prevent you from getting a shock when you plug it in.

Why does plastic make the plug safe?

(1)

1. d) Why should you never plug a plug into a socket if it is wet?

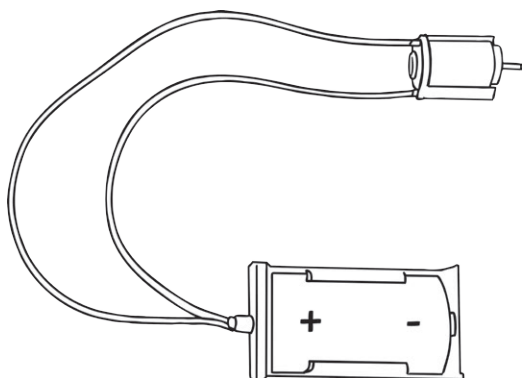
(1)



Circuits Exam Questions Answers

1. a) Two children decided to make a model car.

To make the car move, they connected a battery to an electric motor.

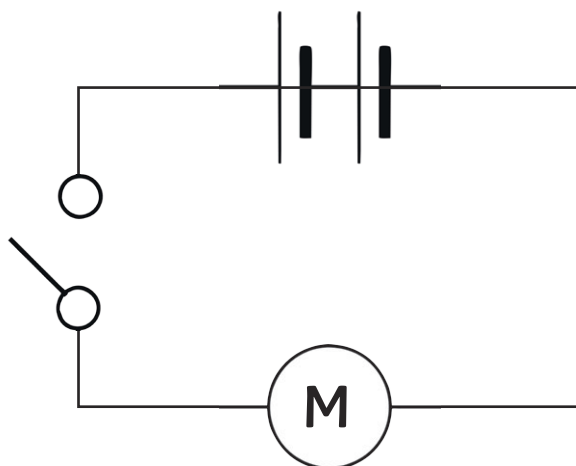


The motor did not work. Explain why.

(1)

The circuit did not work as both wires are attached to one side/end/part of the battery.

1. b) The motor needs to be turned off with a switch. Use the three symbols below and your knowledge to draw a circuit diagram.



(1)

1. c) Plugs are made with a plastic casing to prevent you from getting a shock when you plug it in.

Why does plastic make the plug safe?

(1)

Plastic does not conduct electricity and therefore you will not get a shock.

1. d) Why should you never plug a plug into a socket if it is wet?

(1)

You could get electrocuted as water is a conductor of electricity.

