

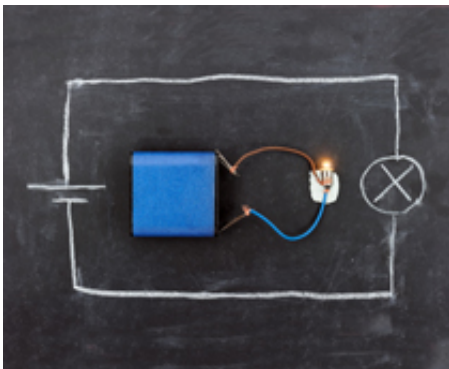
KS1 Science Quiz - Energy - Electricity, Bulbs and Batteries (Questions)

This quiz addresses the requirements of the National Curriculum KS1 Science for children aged 5 and 6 in years 1 and 2. Specifically this quiz is aimed at the section dealing with energy, electricity, bulbs and batteries.

In school you will have learned about electricity, switches, batteries and bulbs. It is very useful. Electricity powers bulbs and keeps our lights on. It runs our televisions and computers, and makes our fridges work. Electricity can be turned on and off by switches. Some things need batteries to work. Batteries store energy. But the energy in batteries does run out. These questions are about using electricity.

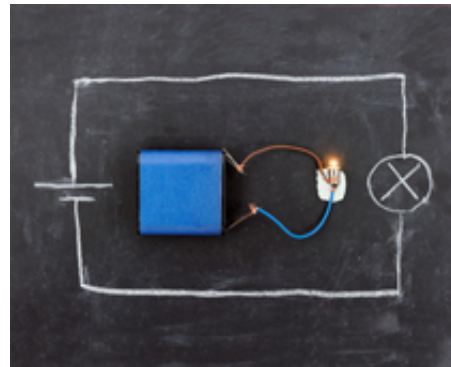
1. This is a very simple electrical circuit. A wire goes from the battery to the bulb. Another wire goes from the bulb back to the battery.

What colour is the battery?



- Black
- Brown
- Red
- Blue

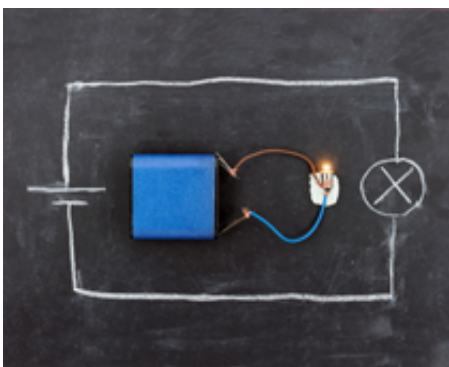
2. Look again at this simple electrical circuit. Where does the energy come from to make the bulb light up?



- The bulb
- The air
- The battery
- The wires

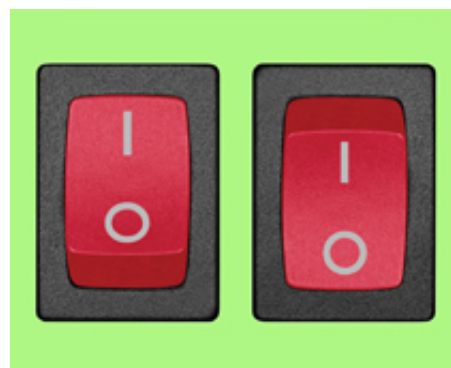
3. This is the third question about this simple electrical circuit.

Alice takes away one of the wires. What happens to the bulb?



- The bulb stays on
- The bulb blows up
- The bulb does not light up
- The bulb melts

4. The picture shows two light switches. Look at the switch on the left. The light will be:



- Dim
- Dull
- On
- Off

5. The same picture of two light switches. Look at the switch on the right. The light will be:



- Dim
- Dull
- On
- Off

6. This is a battery. Batteries have two ends. The end at the top of this picture is called the plus (+) end. What is the other end of the battery called?



- Plus (+)
- Minus (-)
- Earth
- Electrical

7. Sam has a remote control car. It is powered by a battery. What happens if the battery is flat?



- The car will go faster
- The car will go slower
- The car will not go
- The car will spin

8. Michael's mobile is not working. The battery has run out. What should Michael do?



- Buy another phone
- Throw his mobile away
- Recharge the battery
- Give his mobile to a friend

9. Amy's Mum is replacing an old light bulb. The new light bulb uses less energy. Why is this a good thing?



- The new light bulb will cost less to run
- The new light bulb is a funny shape
- The new light bulb is a brighter colour
- The new light bulb will use more energy

10. Lucy wants to watch a show on the telly. She presses the button on the remote control to turn on the television. But nothing happens. What is most probably wrong?

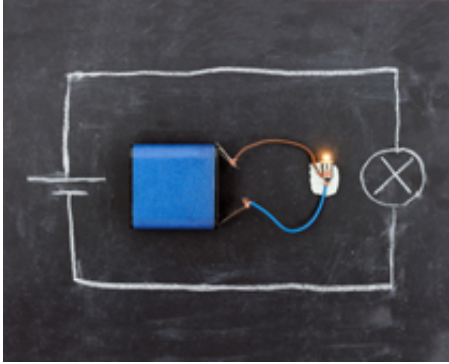


- The TV show has finished
- She has the wrong channel
- The batteries in the remote control need replacing
- She has the wrong day

KS1 Science Quiz - Energy - Electricity, Bulbs and Batteries (Answers)

1. This is a very simple electrical circuit. A wire goes from the battery to the bulb. Another wire goes from the bulb back to the battery.

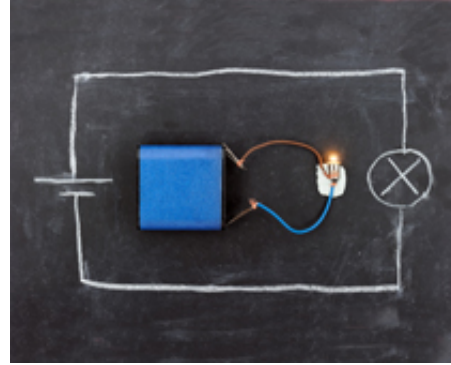
What colour is the battery?



- Black
- Brown
- Red
- Blue

The bulb lights up when the electricity can go all the way round the circuit

2. Look again at this simple electrical circuit. Where does the energy come from to make the bulb light up?

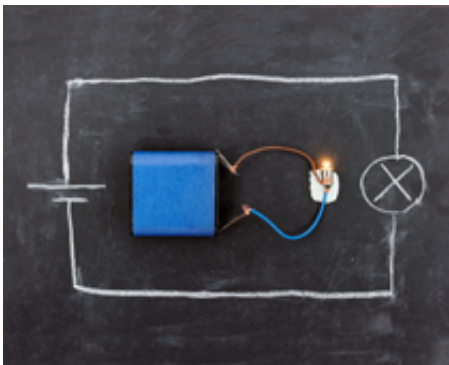


- The bulb
- The air
- The battery
- The wires

The electricity goes through the wires, but the energy comes from the battery

3. This is the third question about this simple electrical circuit.

Alice takes away one of the wires. What happens to the bulb?



- The bulb stays on
- The bulb blows up
- The bulb does not light up
- The bulb melts

What will happen if Alice puts the wire back again? - The bulb will light up again

4. The picture shows two light switches. Look at the switch on the left. The light will be:



- Dim
- Dull
- On
- Off

An I sign means 'on'. An O sign means 'off'

5. The same picture of two light switches. Look at the switch on the right. The light will be:



- Dim
- Dull
- On
- Off

So, one light is on, and one light is off

6. This is a battery. Batteries have two ends. The end at the top of this picture is called the plus (+) end. What is the other end of the battery called?



- Plus (+)
- Minus (-)
- Earth
- Electrical

Always put batteries in the right way round

7. Sam has a remote control car. It is powered by a battery. What happens if the battery is flat?



- The car will go faster
- The car will go slower
- The car will not go
- The car will spin

A flat battery has lost all its stored energy

8. Michael's mobile is not working. The battery has run out. What should Michael do?



- Buy another phone
- Throw his mobile away
- Recharge the battery
- Give his mobile to a friend

Mobile batteries are very small, but they store energy - just like other batteries

9. Amy's Mum is replacing an old light bulb. The new light bulb uses less energy. Why is this a good thing?



- The new light bulb will cost less to run
- The new light bulb is a funny shape
- The new light bulb is a brighter colour
- The new light bulb will use more energy

Less energy means lower bills and it uses less electricity

10. Lucy wants to watch a show on the telly. She presses the button on the remote control to turn on the television. But nothing happens. What is most probably wrong?



- The TV show has finished
- She has the wrong channel
- The batteries in the remote control need replacing
- She has the wrong day

Remote controls need energy to work. They have batteries inside them