

Year 4 Science- Tuesday

Electricity



Following on from yesterday's introduction to electricity, today we are going to have an electrical quiz.

During the rest of the topic, we will be focussing on:

- **Circuits**
- **Insulators and conductors**
- **Safety**

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Question 1

Which of these objects do you think requires the most electricity to run?



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Question 2

Which of these objects uses electricity via a plug and which uses a battery?



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Question 3

Name two electrical components in your house that need to be charged in order to work?

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Question 4

What room in your house do you think uses the **most** amount of electricity throughout each day?

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Question 5

What room in your house do you think uses the **least** amount of electricity throughout each day?

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Question 6

With an electrical component, what is the role of the plug?

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Question 6

With an electrical component, what is the role of the wire?

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Question 7

Why do you think you don't get a shock when you touch the wire that connects your TV to its plug in your house?

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Question 8

Why does your mobile phone lose battery life when you use it?

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Question 9

What happens when there is a local power cut?

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Question 10

Why is there a switch to turn on and off lights?

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Answers

1. Fridge Freezer
2. Torch- battery. TV- electrical plug
3. Laptop, Phone (Did you get any more?)
4. It depends what you use in each room!
5. It depends what you use in each room!

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Answers

6. The wire connects the power source to the component.

7. The wire is covered in plastic which insulates the electricity.

8. You're using up the electricity stored in the battery.

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Answers

9. There is a break in the circuit, meaning the electricity can't reach your house.

10. The switch connects the circuit so the electricity can flow

(We'll be learning about circuits next week)