

# Year 4 Science

## Electricity- Tuesday



### Quick Quiz

1. Name a component needed in an electrical circuit
2. What do you think happens when you add a bulb to a circuit with 1 battery and 1 bulb?
3. How would you make a bulb brighter?

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### Quick Quiz

1. Name a component needed in an electrical circuit

**battery, wires**

2. What happens when you add a bulb to a circuit with 1 battery and 1 bulb?

**The bulbs get dimmer**

3. How would you make a bulb brighter?

**Add more batteries**

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### Re-cap

What did you learn about  
circuits and electricity in your  
last lesson?

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Why do you think there needs to be set electrical symbols that everyone recognises and uses for a circuit?

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Around the world, people speak lots of different languages. It's important to have set symbols so anybody can look at a diagram of a circuit and recognise the components.

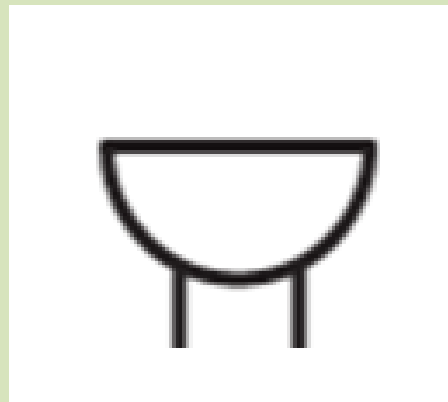
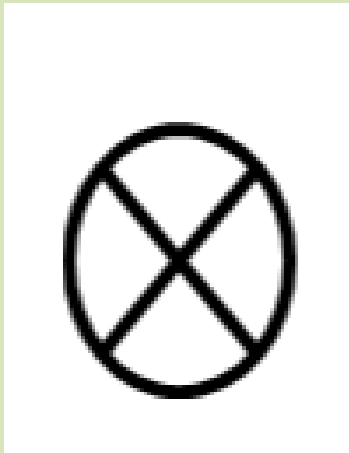
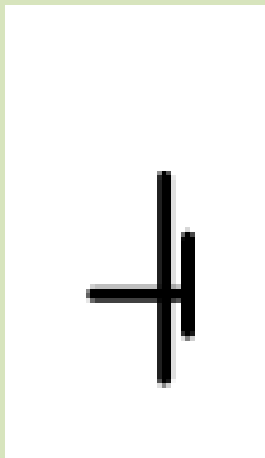
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Can you remember what components these symbols represent?

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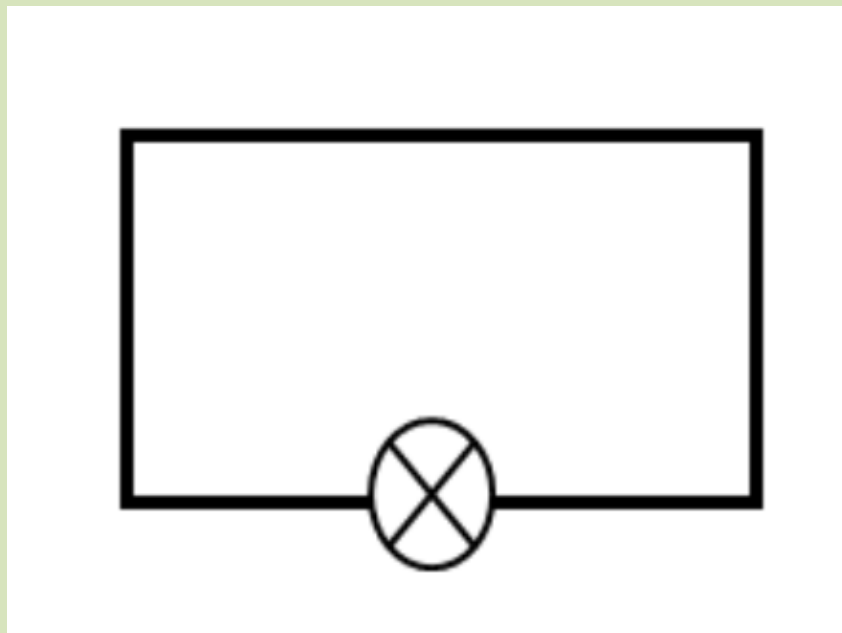


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Here is a diagram of a circuit.



Why won't the bulb light up?  
How can you fix this?

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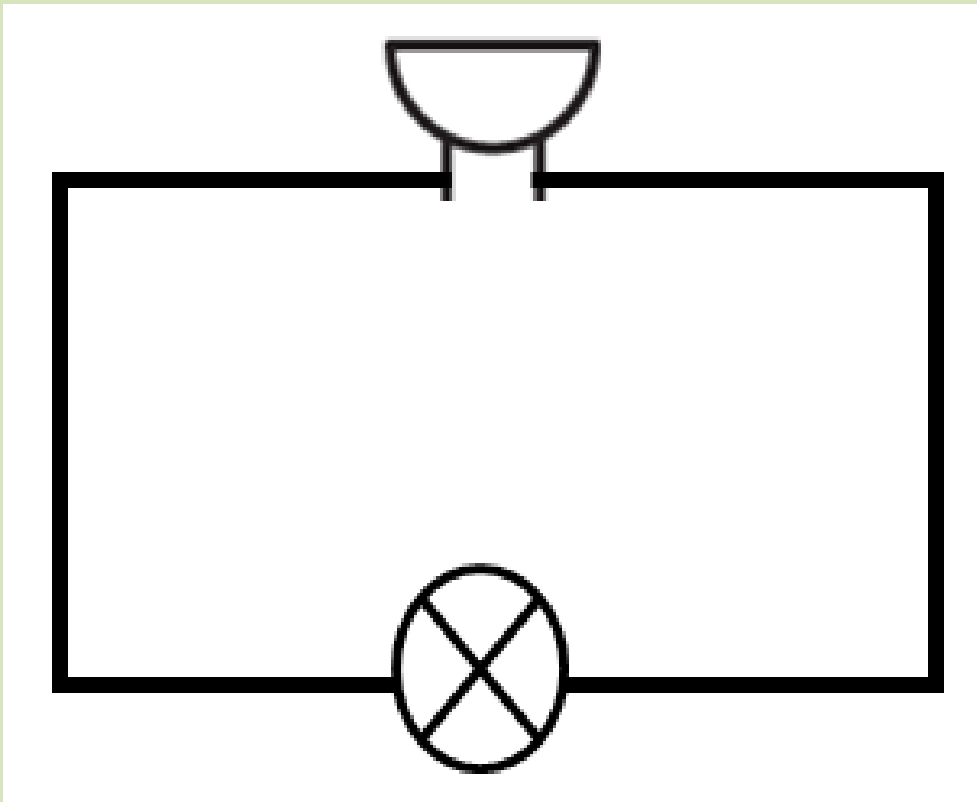
### LO: To recognise and use circuit symbols

On the following slides, there will be images of a circuit. I would like you to copy the image into your book (use a ruler for wires) and next to your image explain what the error is and how you would fix it.



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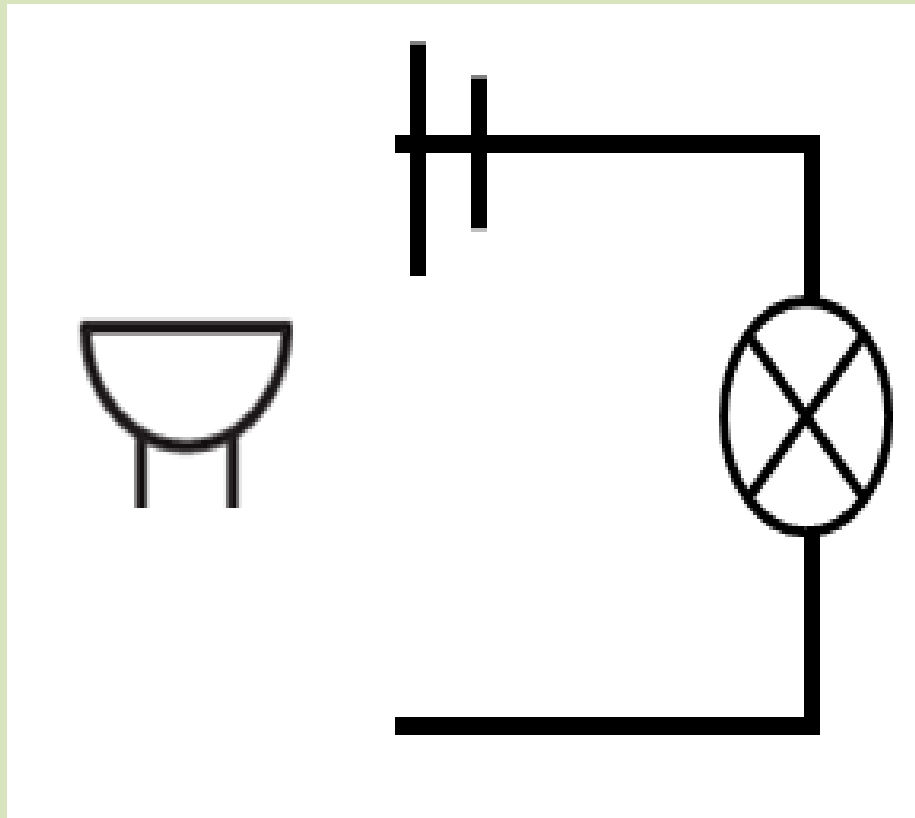
Draw this diagram and explain why the bulb will not light up.

### Challenge

Can you draw this diagram again so it does work.

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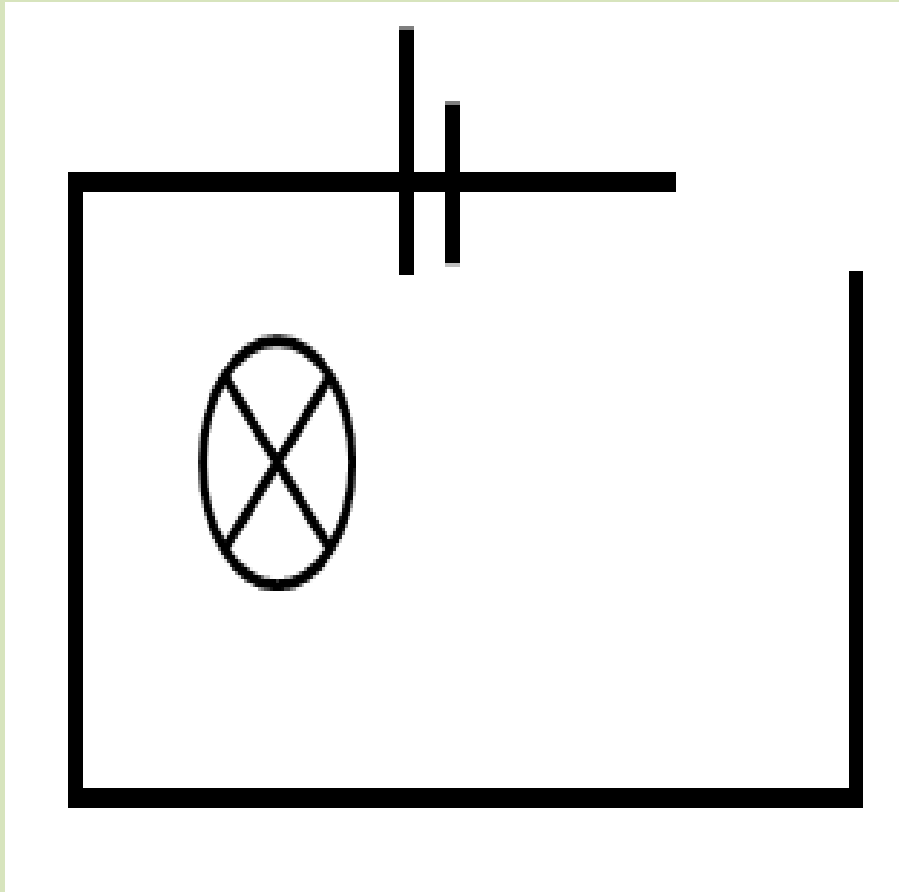
Draw this diagram and explain why the bulb will not light up and the buzzer won't buzz.

### Challenge

Can you draw this diagram again so it does work.

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Draw this diagram and explain why the bulb will not light up.

### Challenge

Can you draw this diagram again so it does work.

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Draw this diagram and explain why the bulb will not light up.

### Challenge

Can you draw this diagram again so it does work.