Circuits and Conductors

Learning Objective: To identify common appliances that run on electricity.

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What do you already know about electricity?

Why is electricity important?

What do we use electricity for?

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Think, pair, then share your ideas!

next

Write down your ideas as a class.

back

next

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What did we do before electricity was used in the home?

How did people wash their clothes?

How did people light their homes?

How did people make a cup of tea?

Think, pair, then share your ideas!

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Electricity became available in the home around 120 years ago - however it was only used by those who could afford it. At that time, homes were lit by candlelight, water was boiled on an open fire and washing was done by hand.

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Electricity is a form of energy that can stay in one place or can flow from one place to another.

But where does it come from?

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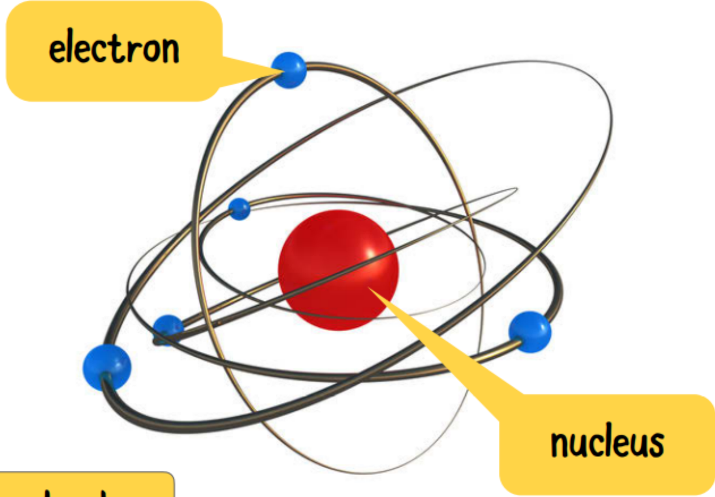
Everything, EVERYTHING, is made up of <u>atoms</u>.



Atoms have a nucleus in the middle and a number of negatively charged electrons around the outside of them.

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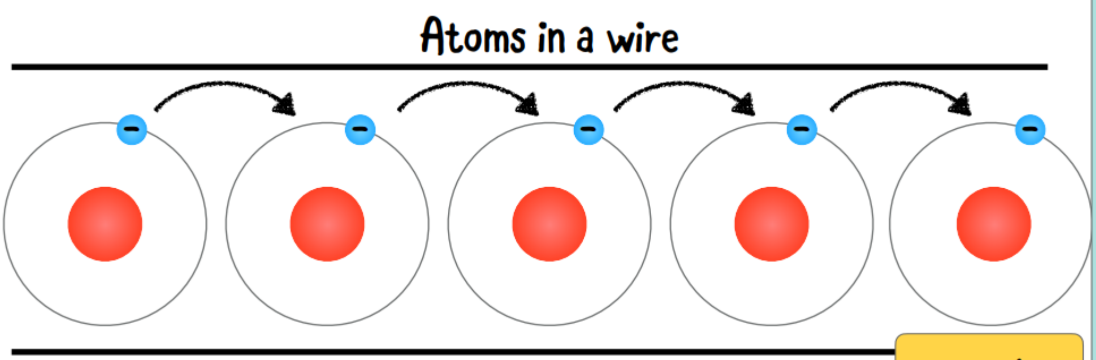
Electrical energy is the movement of these electrons between atoms to make a current.

This movement happens at the speed of light!



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We can generate electricity in lots of different ways.

Do you know any ways we generate electricity?

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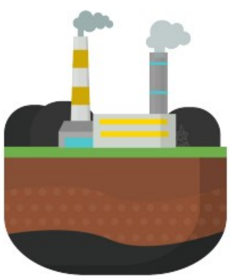
Did you think of these sources?



burning fuels

nuclear

wind

hydro

solar

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next

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Does this run on electricity?

Hands up for yes, hands down for no.

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next

Does this run on electricity?

Hands up for yes, hands down for no.

back

next

Does this run on electricity?

Hands up for yes, hands down for no.

back

next

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Does this run on electricity?

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Plenary

How do the devices we've looked at today get their power?

Are they all powered in the same way?

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