

# Electricity

## What is electricity?

Electricity is energy. It flows from place to place. It can be stored to be used somewhere else.

Many things use electricity, like lights, radios, cars and trains.



## How is electricity made?

Electricity is made by:

- Burning oil and coal;
- Using wind and sun power.

Oil and coal will run out. Burning them can hurt animals and people.

Wind and sun power will not run out. Using them does not hurt animals and people.



## Where is electricity made?

It is made in power stations, wind farms and solar panels. It flows along metal wires to where it is needed, like homes and schools.

### Facts:

- Electricity is measured in volts.
- It is stored in huge grids.
- You can get an electric shock from it.
- Electricity travels well through some metal wires.

# Questions

1. Name one thing that needs electricity to work.

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2. What is burned to make electricity?

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3. Apart from wind power, what other power is used to make electricity?

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4. Name one good reason to use wind power.

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5. What sort of wires does electricity flow through?

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6. What is electricity measured in?

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# Electricity

## What is electricity?

Electricity is a type of energy. It flows from one place to another. It can be stored in batteries and used when it is needed.

Many things run on electricity. Lights, radios, cars, trains, and many more, use electricity to work.

## How is electricity made?

Source	Facts
Oil and coal	<ul style="list-style-type: none"><li>• These will run out.</li><li>• Burning them causes harm to animals and people.</li></ul>
Wind and sun power	<ul style="list-style-type: none"><li>• These will last for a long, long time.</li><li>• They do not cause harm to people or animals.</li></ul>

## Where is electricity made?

It is made in power stations, wind farms and solar panels. It is carried along wires to where it needs to be used, like homes and schools.



### Facts:

- Electricity is measured in volts.
- It is stored in huge grids.
- You can get an electric shock from it.
- Electricity travels well through some metal wires.

# Questions

1. What is electricity?

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2. What can it be stored in?

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3. Name 2 things which need electricity to work.

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4. Name one thing that is not good about burning oil and coal to make electricity.

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5. Name one thing that is good about using wind and sun power to make electricity.

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6. Write one place where electricity is made.

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7. Why can electricity be dangerous?

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# Electricity

## What is electricity?

Electricity is a form of energy that flows from one place to another. This is called current electricity.



Many things that we use every day run on electricity. Toasters, hair dryers, lights, radios, cars, trains, and many more, rely on electricity to work properly.

## How is electricity made?

Source	Facts
Oil and coal	Oil and coal will run out one day. Burning these fuels causes pollution to the world, which harms people and animals.
Wind and sun power	The wind and sun will not run out. Using them causes a lot less pollution.

## Where is electricity made?

It is made in power stations, wind turbines, some batteries and solar panels. It is then stored and carried along wires to where it needs to be used, like in homes, hospitals and factories.

### Facts:

- The first electric motor was invented in 1821 by Michael Faraday.
- Electricity is measured in volts.
- It is stored in huge grids and then flows throughout the country to different places.
- It can be very dangerous as you can get an electric shock from it. You need to be sensible around electrical things.
- Electricity flows better through wires made from silver, gold and copper.

# Questions

1. How would you describe electricity?

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2. Name three things that use electricity to work.

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3. Which way of making electricity do you think is better, and why?

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4. How does electricity get from where it is made to where it is needed?

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5. Who invented the first electric motor?

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6. Where is electricity stored?

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7. Which fact do you find most interesting, and why?

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