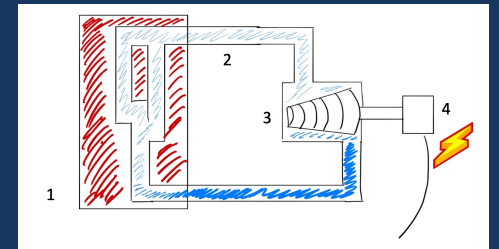
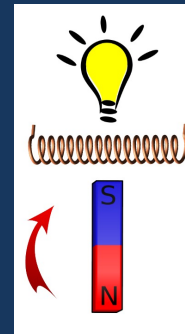
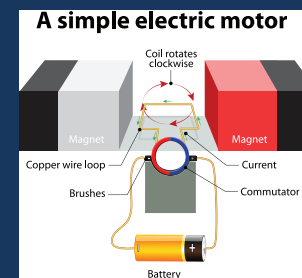


Motors and Generators

- Motors
- Generators
- Electricity
Generation through
fossil fuels, nuclear
and wind
- Electric Motors
- Electric Vehicles



Preview File

Please enjoy this preview of your Student Version of the presentation. Please note within this sample file:

- Some slides appear blank because they have been removed
- Student versions have portions of the text removed which is given in the teacher version and appear as _____ which the students are to fill in
- Other slides may have on them, this represents writing that has been removed on this sample

**The paid full version of your resource includes
both Google Slides and PowerPoint and is
Google Classroom Ready**



Motors

1. List 4 things that you use each day that has a motor.
2. Come up with a definition of a motor.

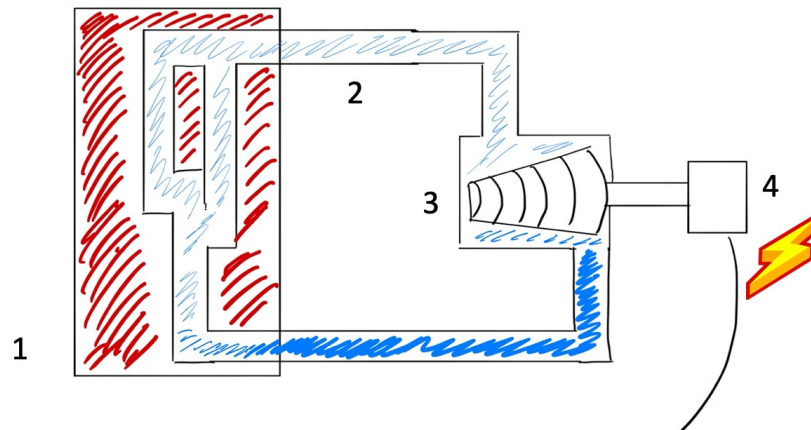
Electric Motors

We use electricity to get an object, like a fan, moving.



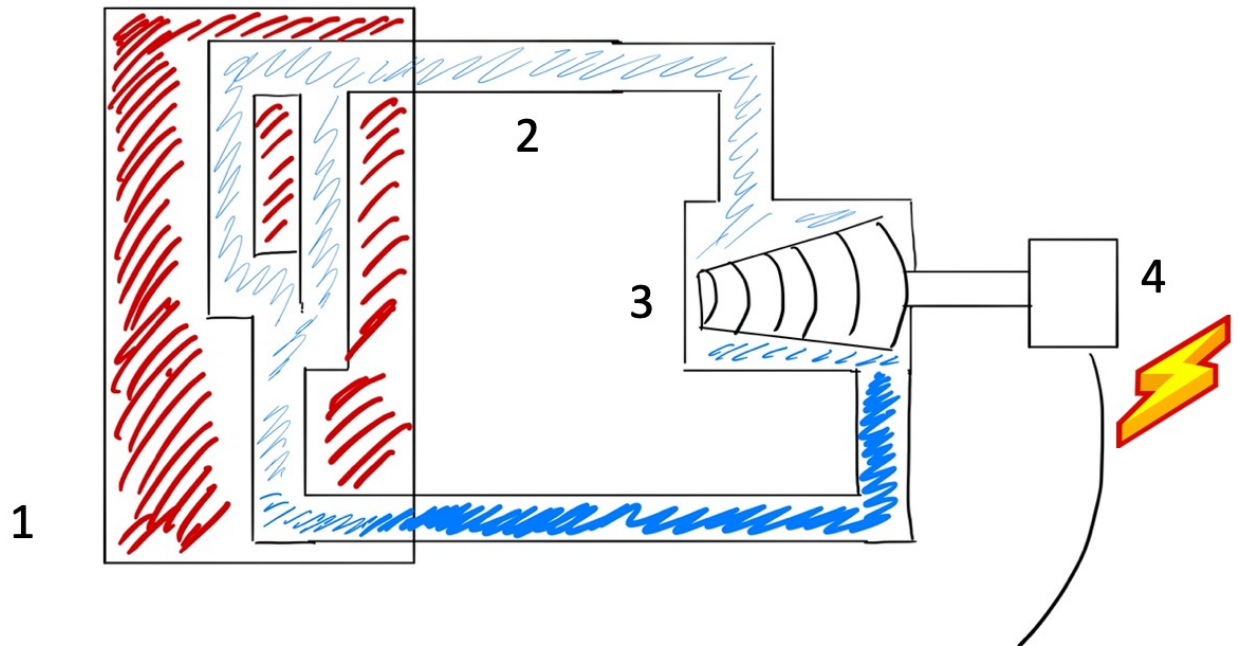
Generators

- _____
- Fossil fuel and nuclear power plants change the energy from the fuel into electricity
- To make electricity, we need to spin a magnet near a coil of wire inside a generator



Fossil Fuel Electricity Production

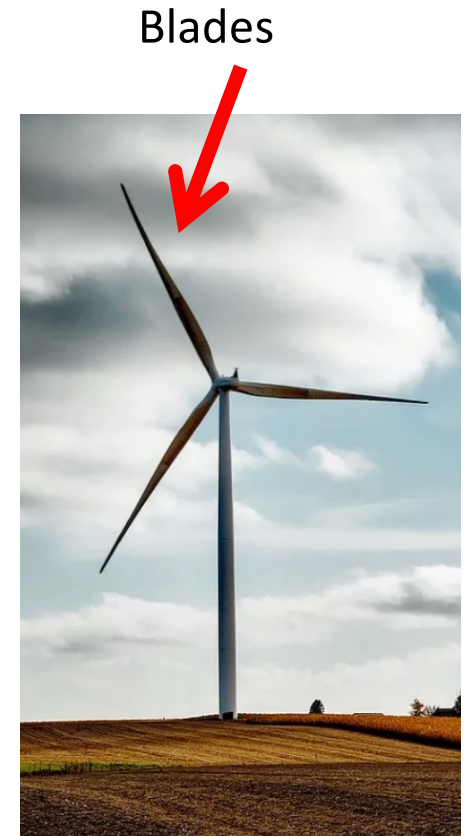
- Fossil fuels, like coal, are burned (1) to heat water which creates steam (2)
- Steam moves faster than water and causes a turbine to spin (3) which spins the magnet inside the generator (4) which creates electricity



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Removed**

Wind Energy

- Wind turbines work in a similar way
- _____
- When the blades spin, the generator creates electricity



Generating Electricity

Click on the image to see how electricity is generated. Make sure you click the 'Generator' tab.

Changing the amount of water coming out of the tap, changes the speed the magnet moves.

1. What happens to the light when you change how fast the magnet moves?
2. What happens



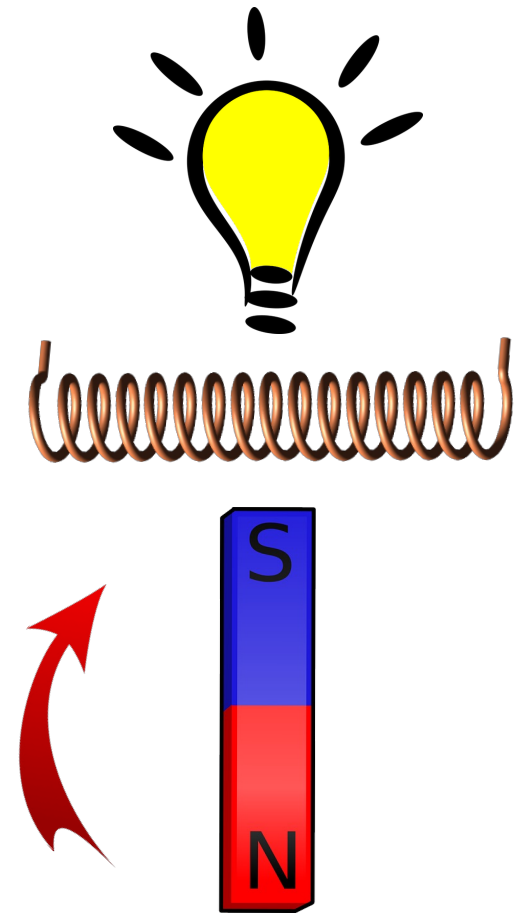
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Electric Motors

- Electric motors work in the exact opposite way as generators

- _____

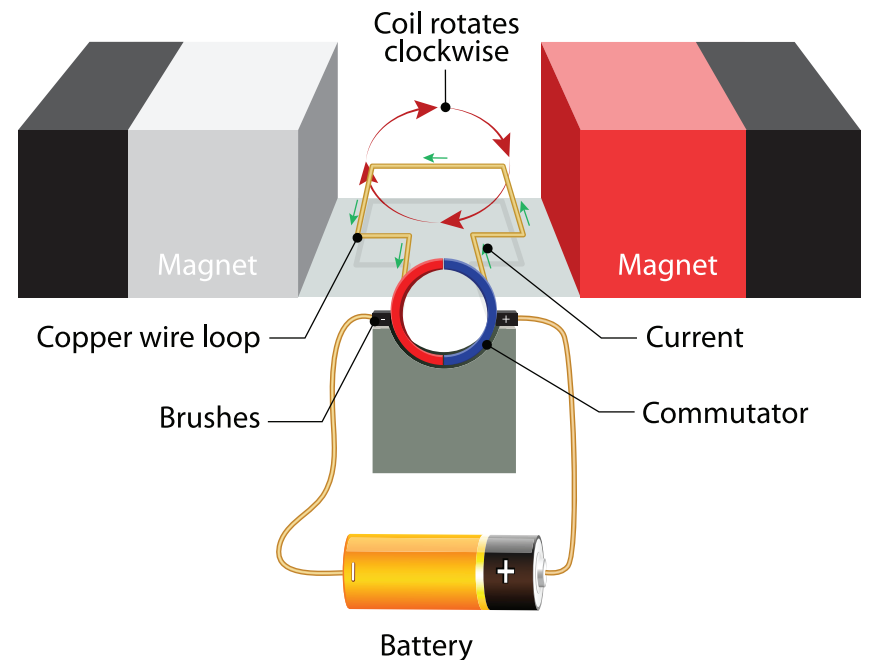


Generator

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Electric Motors

A simple electric motor



- _____
- The wheels can be made to spin faster by increasing the amount of electricity



Electric Vehicles

- _____

- Since the wires are between the permanent magnets, they spin, making the car move
- Electric vehicle

.....

A simple electric motor

