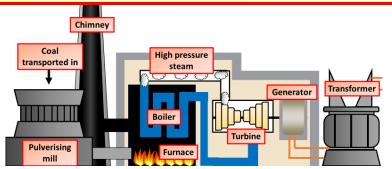
WHERE DOES ELECTRICITY COME FROM?

Task:

Make a poster that shows where electricity comes from. Write a step-by-step description of how electricity is generated using coal and wind. Make a chain that shows the steps for generating electricity. Try to identify energy transfers



Done	You might have:
	 Draw a diagram to describe how electricity can be generated using coal.
	 Draw a diagram to describe how electricity can be generated using wind turbines.
	 Identify the renewable and the non-renewable resource.
	State the original source of energy for both coal and wind.
	 Classify a few other resources as renewable or non- renewable.
	 Draw a diagram to explain how electricity can be generated using coal.
	Draw a diagram to explain how electricity can be generated using wind.
	 Describe the difference between renewable and non- renewable resources.
	 Explain the original source of energy for both coal and wind. On the diagrams, label some useful energy transfers.
	 On the diagrams, identify useful and non-useful energy transfers.
	 Describe some advantages and disadvantages of using each energy resource.
	 Draw a detailed diagram to explain how electricity can be generated using coal.
	 Draw a detailed diagram to explain how electricity can be generated using geothermal energy.
	 Explain the difference between renewable and non- renewable resources.
	Explain the original source of energy for both coal and geothermal energy.
	On the diagrams, accurately label useful and non-useful energy transfers.
	Explain, in detail, the advantages and disadvantages of using

each energy resource.

Specification Link:

Home School Project

Highlight key points below

Crude oil, coal and gas are fossil fuels. They were formed over millions of years, from the remains of dead organisms:

- coal was formed from dead trees and other plant material
- crude oil and gas were formed from dead marine organisms

Generators in a power stations produce electricity when a coil of wire is in a changing magnetic field. This changing magnetic field is caused by spinning a magnet inside the coil.

Fossil fuel and nuclear power stations use the energy store to heat water and produce steam to turn a turbine which is connected to the magnet, causing it to spin.

Renewable energy is energy that is collected from renewable resources, which are naturally replenished on a human timescale, such as sunlight, wind, rain, tides, waves, and geothermal heat.

Questions that you should ask yourself while completing this

What should I do first?

Is something confusing me?

Could I explain this to someone else?

Could I have used more scientific terms?

Where can I look for help?

Have I double checked what I need to include?

How can I do it better?