



COAL



NATURAL GAS

FOSSIL FUELS

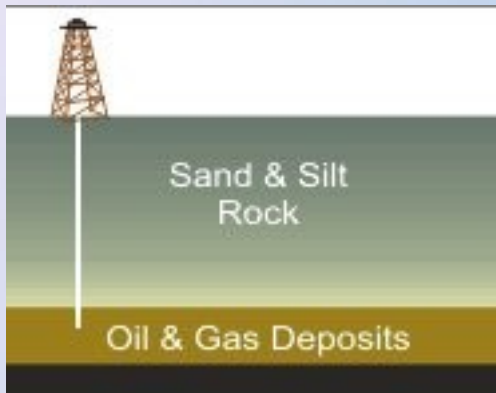


OIL

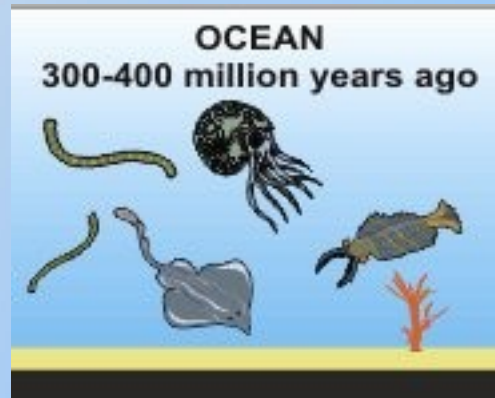
OIL & NATURAL GAS

➤ *Put the pictures in the correct order*

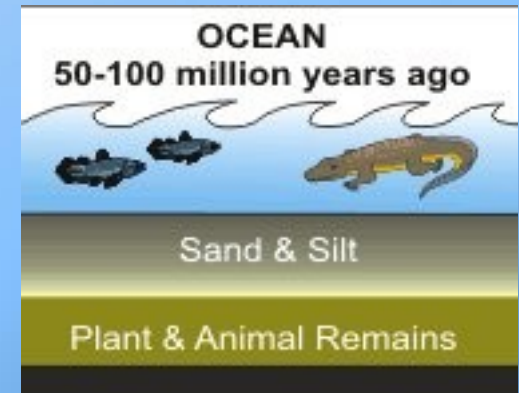
A



B



C



➤ *Match each picture with the suitable text*

Over millions of years, the remains were buried deeper and deeper. The enormous heat and pressure turned them into oil and gas.

D

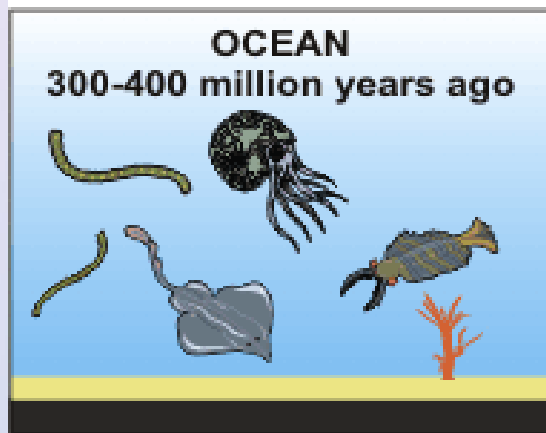
Today, we drill down through layers of sand, silt, and rock to reach the rock formations that contain oil and gas deposits.

E

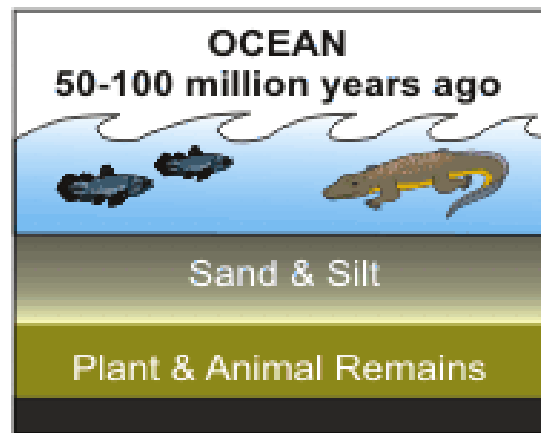
Tiny sea plants and animals died and were buried on the ocean floor. Over time, they were covered by layers of silt and sand.

F

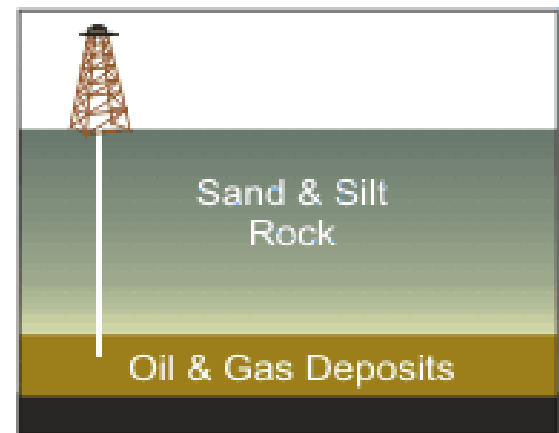
OIL & NATURAL GAS



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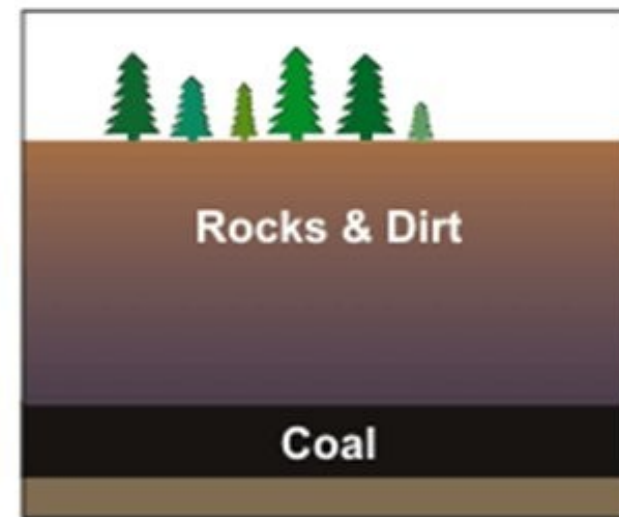
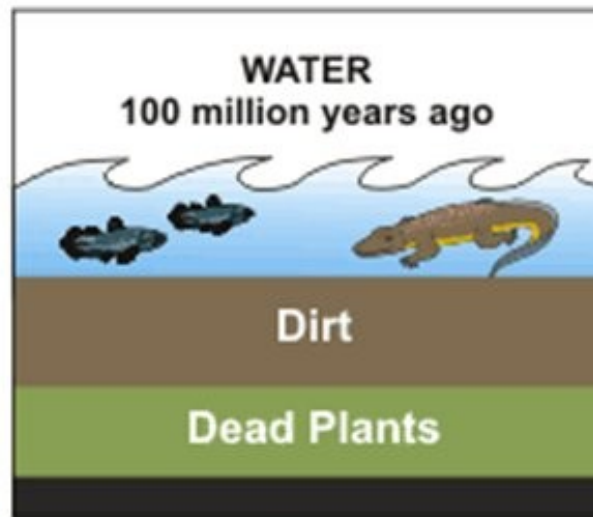
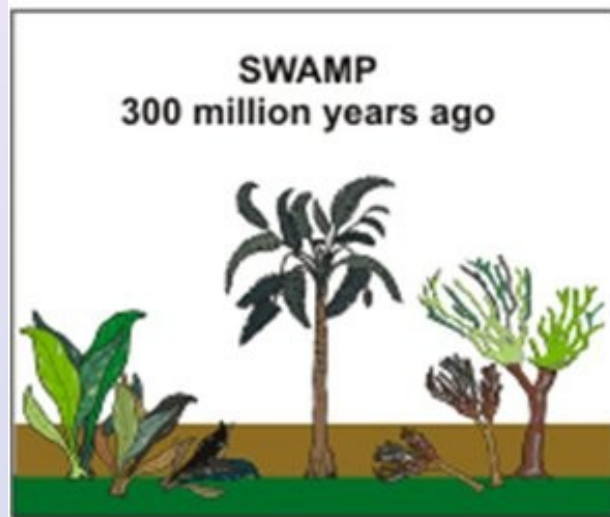


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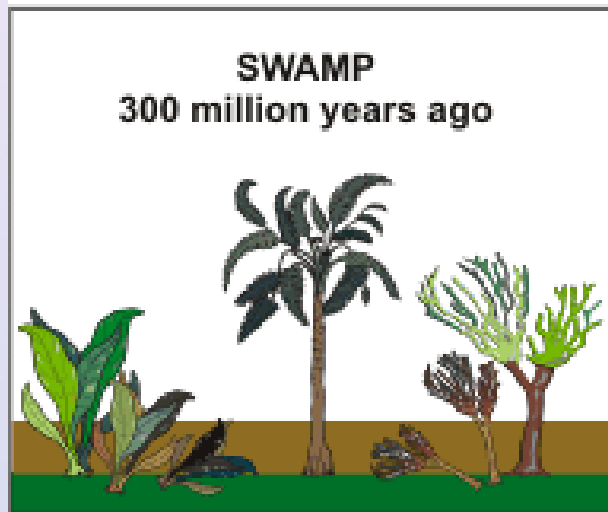


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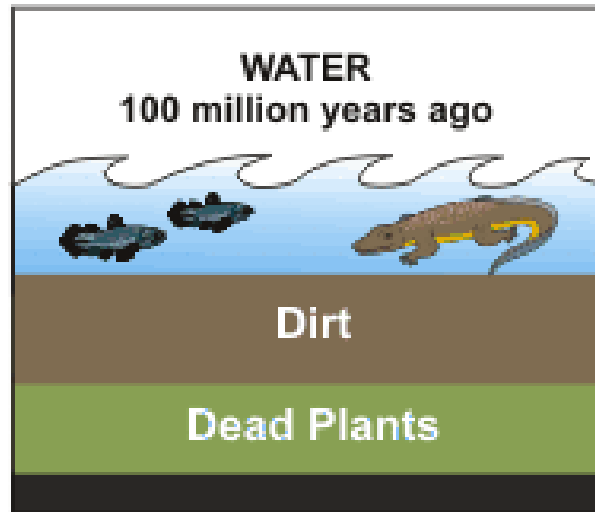
➤ *Explain the process of how coal was formed*



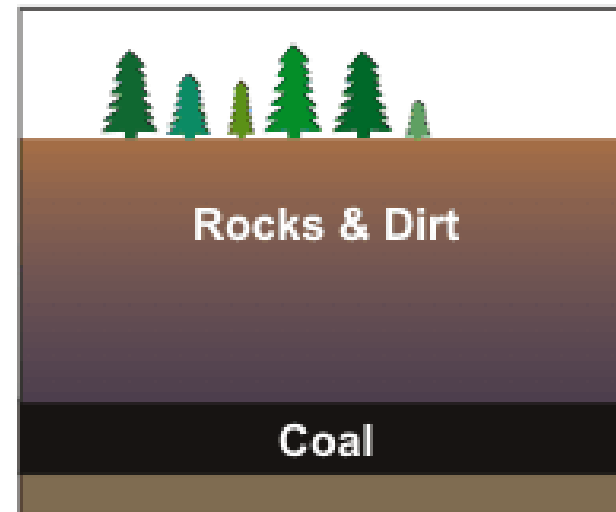
HOW COAL WAS FORMED



Before the dinosaurs, many giant plants died in swamps.



Over millions of years, the plants were buried under water and dirt.



Heat and pressure turned the dead plants into coal.

➤ *Make sentences with the information of the table*

COAL	was formed	from sea plants and animals
		from plants
		in swamps
OIL		in oceans
		100 million years ago
		50-100 million years ago

WE BURN FOSSIL FUELS TO PRODUCE ELECTRICITY

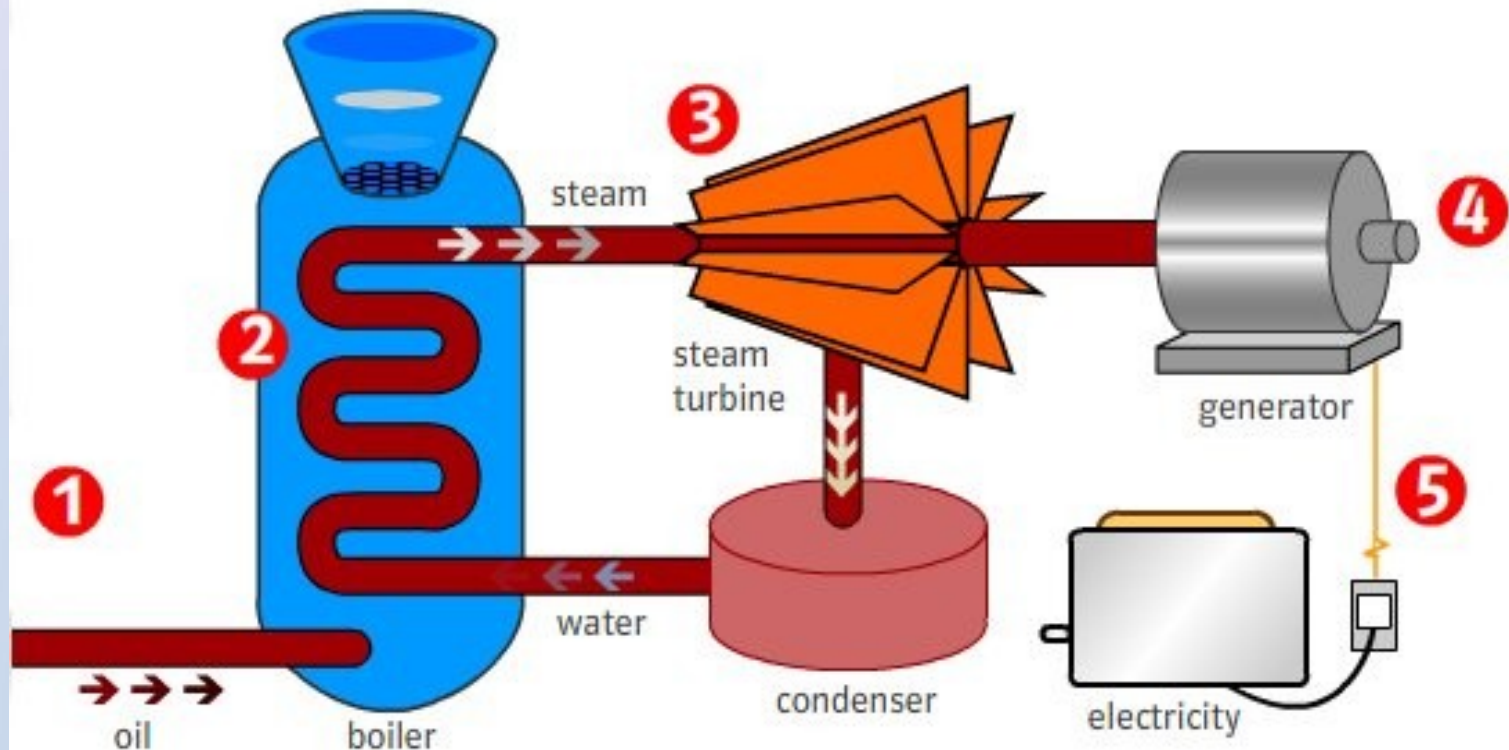
The turbines turn the generators, which create electricity

The electricity flows into the Grid

The steam pushes the turbines, forcing them to spin very fast

The oil is burned to heat water, producing steam

Crude oil is delivered to the power station.

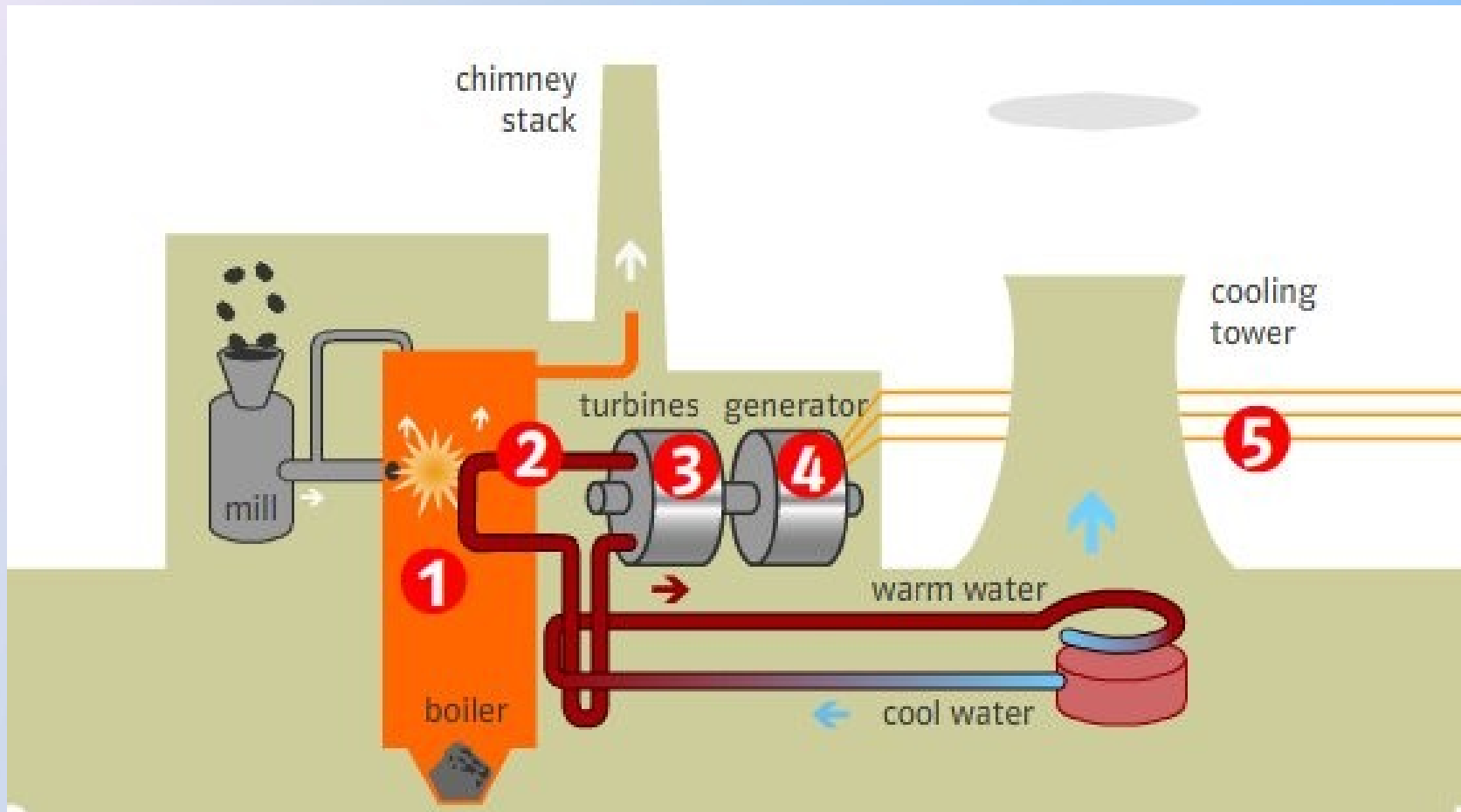


Oil-fired power station

Source: E.ON UK



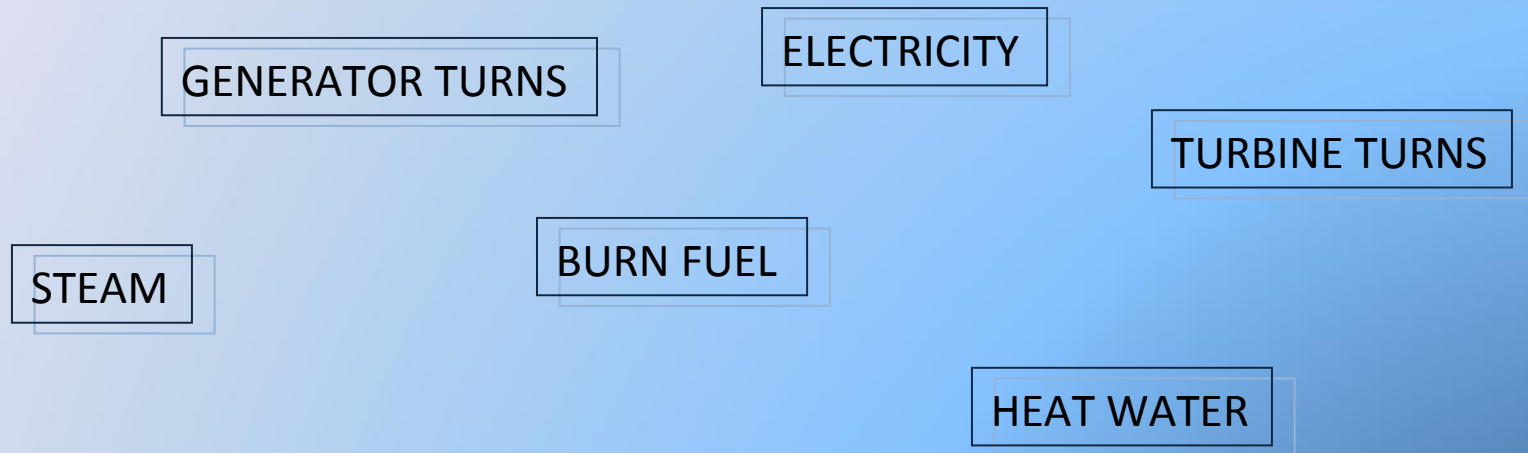
➤ *Can you explain the process?*



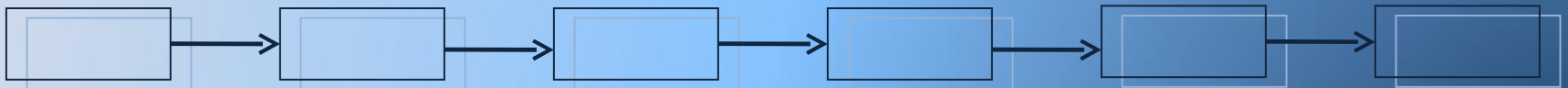
Coal-fired power station

SUMMARY: FLOW DIAGRAM OF ELECTRICITY PRODUCTION

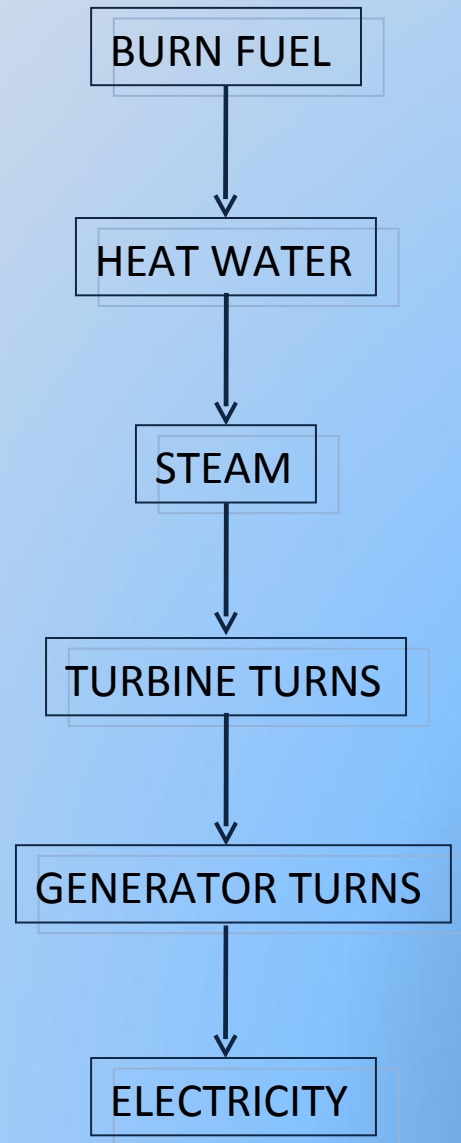
➤ *Put the following steps in order*



➤ *Draw the flow chart of the process*



FLOW DIAGRAM OF ELECTRICITY PRODUCTION



ADVANTAGES AND DISADVANTAGES OF USING FOSSIL FUELS

➤ *Decide which statements are advantages and which are disadvantages. Explain why.*

- **Very large amounts of electricity** can be generated
- **Non renewable**: Their supply is limited and they will eventually run out (finish)
- **Cheap** energy resources
- **Easy to transport** to the power stations
- They **release carbon dioxide (CO₂)** when they burn (greenhouse effect and global warming)
- Gas-fired power stations are very **efficient**
- A fossil-fuelled power station **can be built almost anywhere**
- They **release sulfur dioxide gas** when they burn (acid rain)