

**Lesson 3: Green Energy**



- I can explain how the human enhanced greenhouse effect affects climate change.



**Matching Game!**

Which fossil is used to power the appliances in the pictures?

**Oil**

**Coal**

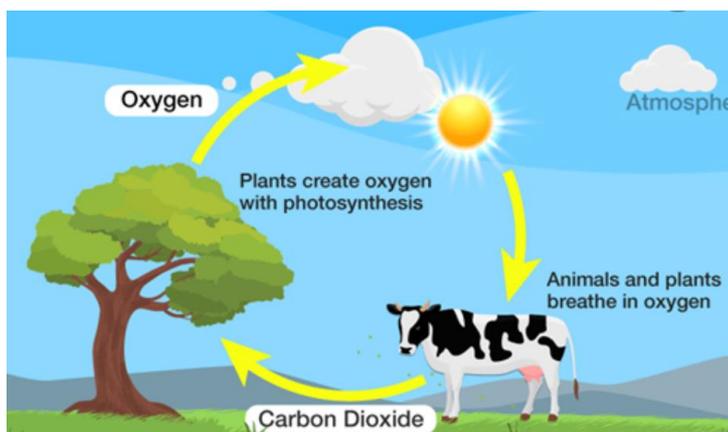
**Gas**



**Fossil Fuels – Limits and Disadvantages**

Fossil fuels are a valuable source of energy. They are inexpensive and easily transported around the world. Hence, they have been so popular to use. However, they will not go on forever and they damage our environment.

Fossil fuels are burnt to generate energy. This burning is harmful to the Earth and its environment because the coal or oil which is burnt releases polluting particles into the air. When fossil fuels are burnt, carbon dioxide is released into the atmosphere and heats it, so it is not a bad thing.



There is a balance between oxygen and carbon dioxide. Animals absorb oxygen and release carbon dioxide, whereas plants absorb carbon dioxide and release oxygen.

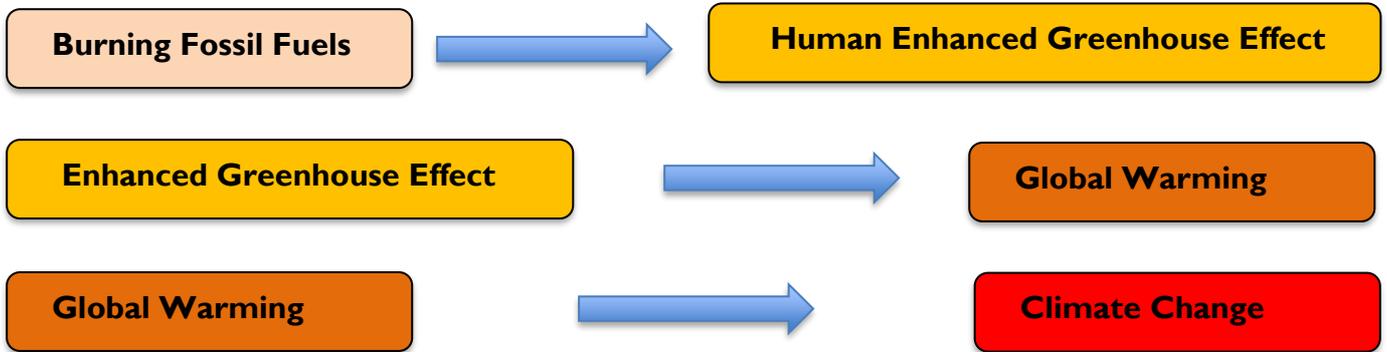
However, we have caused an imbalance by adding more carbon dioxide from the burning of fossil fuels. It traps more infrared radiation in the atmosphere, which heats up and leads to global warming.





### Cause and Consequence

Look at the following examples. A cause leads to a consequence, which becomes a cause for another consequence.



**What are the consequences of the human enhanced greenhouse effect on the climate?**

Use the pictures to help you explain the causal link between the two.

Large rounded rectangular area with horizontal lines for writing.

