Prior Knowledge

 Humans have basic needs that they need to survive: food, water and shelter

Trees absorb carbon dioxide

Year 5 — Renewable Energy & Climate Change Knowledge Organiser



Fascinating Facts

- Scientists estimate that since the Industrial Revolution, human activity has caused the Earth to warm by approximately 1°C. While that might not sound like much, it means big things for people and wildlife around the globe.
- Experts believe that the Arctic sea ice is melting at a shocking rate 9% per decade

Types of Power Station Electricity is made in pow

Electricity is made in power stations, transferred via pylons, through wires and into our homes.

Coal - burning coal.	Combined Cycle Gas Turbine (CCGT) - burning gas.	Nuclear - uranium atoms split in a process called nuclear fission.	Pumped Storage - water in dams used to turn turbines.
non-renewable	non-renewable	non-renewable	renewable

Renewable Energy

Renewable energy is made from resources which nature can replace, it is more environmentally friendly as it does not pollute the air or water.





Key Vocabulary			
Carbon footprint	An estimate of the impact that activities have on climate change		
Climate	The average of temperature and precipitation over time		
Climate change	Any significant long-term change in the expected patterns of average weather of a region (or the whole Earth) over a significant period of time		
Conserve	Use as few resources as possible		
Consume	To use, eat or drink something		
Fertile land	Land that is rich in nutrients and very good for growing crops		
Food miles	The distance an item has travelled from where it was produced to where it was consumed		
Fossil fuels	Oil, coal and natural gas.		
Global warming	A gradual increase in the overall temperature of the Earth's atmosphere.		
Greenhouse gas	Released when fossil fuels are burned and occur naturally in the atmosphere (e.g carbon dioxide and methane)		
Import	Buying produces and goods from abroad		
Non-renewable energy	A source of energy that will eventually run out as it cannot be made as quickly as it is consumed (e.g coal)		
Produced	Where something was made		
Renewable energy	Created by resources that nature can replace, such as wind, water, sunlight		
Sea level rise	Sea levels rise is an increase in the level of the world's oceans due to the effects of global warming		
Solar energy	Energy that comes from the sun, using solar panels to generate electricity		
Turbine	An engine that can turn movement into energy		
Weather	The day to day changes in the atmosphere		

"Never doubt that a small group of thoughtful, committed citizens can change the world. In deed, it is the only thing that ever has." Margaret Mead