

Learning Organiser: How can we persuade people to join us in tackling the causes of global warming?

Key objective

To understand what is meant by global warming, some of the impacts it is having and how people can reduce it

Important things I will know, understand and do

The five elements of the weather

The difference between weather and climate

The location of hot and cold places in the world

The distribution of polar, temperate and tropical regions of the world

What a 'greenhouse gas' is

Why the natural 'greenhouse effect' is and why this is a positive thing for the planet

Why the build-up of too many human generated greenhouse gases can cause the climate of the Earth to change

The main human sources of carbon dioxide and methane

What the term 'carbon footprint' means

What 'global warming' means and how it is caused

Examples of things people are already doing to reduce their 'carbon footprint'

Identify and locate the Arctic and Antarctic
Some of the effects of global warming on the ice and living things of the Arctic and Antarctic

Some of the effects of global warming on living things in the United Kingdom

Examples of things that people can do to reduce the impact of global warming on the environment in the United Kingdom

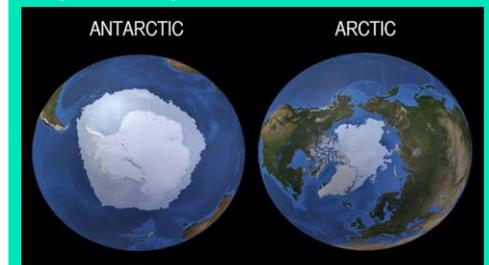
Important geographical techniques I will use

Data representation	Bar Graph; Line Graph; Pictogram; Tally Chart; Venn Diagram; Map Symbols; Map Key; Annotated Map
Mapwork	World maps; Atlases; Globe; Terrestrial, Aerial and Satellite photographs.
GIS	Google Earth Pro; Web Cams

Important geographical concepts I will understand

Physical feature	natural things that would be present even if there were no people
Human feature	things that have been constructed by people
Environment	the particular physical and human features which make places distinctive
Region	an area of land that has common features such as a particular climate or religion
Location	the position of something on Earth
Economic activity	making a product or providing something that others pay for
Weather	what's happening in the atmosphere at any given time e.g., sunshine, wind, rain
Climate	the average weather conditions of a place over a long period
Global warming	Global warming: the warming up of the Earth's atmosphere through the buildup of excessive greenhouse gases such as carbon dioxide and methane
Carbon footprint	the amount of carbon dioxide released into the atmosphere as a result of the activities of a person, business or community
Polar	places where the weather is almost always very cold and dry
Conservation	the protection of environments to prevent their loss or destruction
Sustainability	improving the quality of life of people without having a negative impact on the environment
Distribution	the pattern of where physical and human features are located
Energy	the power needed to make something work
Tourism	visiting places that involves staying away from home for one or more nights

Important places I will visit



The Antarctic and the Arctic

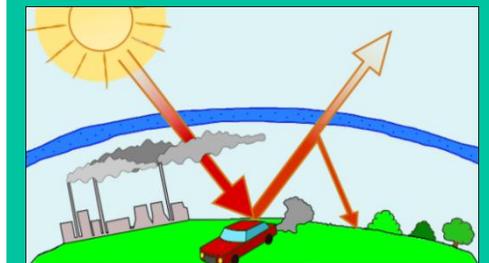
Important processes I will understand better



Deforestation



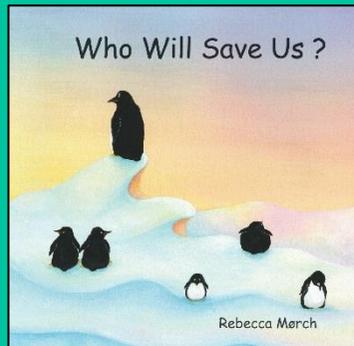
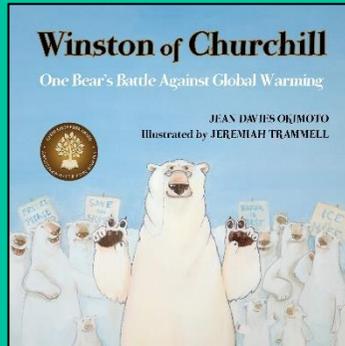
Burning Fossil Fuels



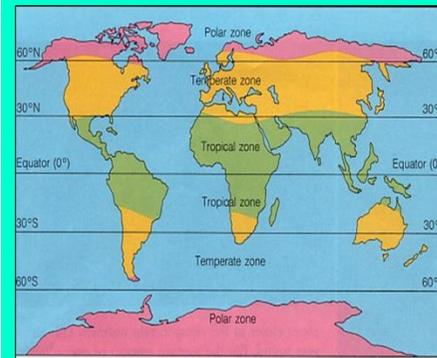
The Greenhouse Effect

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Books that will help me appreciate some impacts of global warming



Important maps I will refer to



Climate Regions of the World

Important economic activities I will know more about



Rice Growing in paddy Fields



Cattle farming

Disciplinary thinking skills I will use to understand what I learn

Recognise	Name and point out who or what something is
Identify	Distinguish something or someone from others that may be similar
Describe	'Say what you see'. Give an account in words of something or someone
Observe	Identify and distinguish with a degree of analysis some things that may potentially be more noteworthy or important than others
Select	Decide upon and choose that information considered most suitable or relevant
Categorise/Classify	Arrange information into particular groups according to shared qualities or characteristics
Sequence	Place a set of related events or things that follow each other into an order
Compare and contrast	Find similarities and differences
Recall	Remember and recount something learned
Reason/speculate	Thinking and forming ideas about something without necessarily firm evidence yet to back it up – conjecture, supposition
Summarise	Outline or sum up briefly the main points about something

Important subject vocabulary I will learn

Landscape	everything that can be seen when looking at a particular place
Ecosystem	the community of living things to be found in a particular area which depend upon each other
Habitat	the natural home of a living thing such as a plant
Atmosphere	the layer of gas that surrounds the Earth, often called air
Renewable	energy from a source such as wind that is never used up
Fossil fuel	energy sources made of carbon such as oil that are non-renewable
Insulation	something that stops the loss of heat
Absorption	to take something in or soak it up
Hibernation	when animals have periods of long sleep during the winter
Agriculture	growing crops and rearing animals on farms
Industry	businesses that sell products and services to people
Ice sheet	a thick layer of ice covering a large area of land or sea