YEAR 4: GEOGRAPHY AUTUMN 1: GLOBAL CLIMATE COMPARISON



Climate Zone	Description	Example
Polar	Very cold and dry all year round.	Antarctica
Temperate	Cold winters and mild summers.	United Kingdom
Arid	Dry and hot all year round.	Sahara Desert
Tropical	Hot and wet all year round.	Nepal
Mediterranean	Dry, hot summers and mild winters.	Spain
Mountainous	Very cold, sometimes wet, all year.	Himalayas

Equator:

The Earth is divided into sections by imaginary lines. The Equator is an imaginary horizontal line around centre of the Earth. Anything south of the Equator is in the Southern Hemisphere and anything north, in the Northern Hemisphere. The Sun's energy is strongest along the Equator.

Climate Zones:

When things aren't in balance, nature likes to even things out. The extra energy at the Equator needs to be spread across the planet and it's this that creates different climate zones. Warm air rises at the Equator and moves towards the Polar Regions.

Climate:

A country's climate is influenced by:

- how near or far it is from the Equator
- how near or far it is from the sea
- how high or low the ground is
- where it is on a continent

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Key Vocabulary		
Climate	A description of the	
	pattern in weather	
	conditions in a certain	
	place over a specific period	
	of time, usually 30 years.	
Weather	A description of the	
	conditions in a particular	
	place at a particular time.	
Carbon	A greenhouse gas produced	
dioxide	by burning fossil fuels.	
Climate	A collection of countries in	
zone	similar places on the globe	
	that experience similar	
	weather conditions.	
Habitat	The home of an animal or	
	plant.	
Equator	An imaginary horizontal	
	line that divides the Earth	
	into two hemispheres.	
Global	The heating of the Earth's	
warming	surface, atmosphere and	
	oceans as a result of human	
	activity.	

Climate Change:

The climate across the world has naturally changed over millions of years. Today, because humans have been burning fossil fuels, more carbon dioxide has entered the Earth's atmosphere. Carbon dioxide acts like a greenhouse; letting the Sun's rays through to heat up the atmosphere but stopping the heat from escaping. This makes the planet warm faster than it naturally would, causing the climate to change.

Effect on Habitats:

Animals and plants are adapted to surviving in their habitats. When the conditions in their habitats change (e.g. the temperature gets hotter), they become less suited to their environment.

Preventing Climate Change:

Use less energy by switching off appliances when they're not being used
Reduce, reuse and recycle!

- Walk or cycle rather than using a car

Physical Effects of Climate Change:



Warmer temperatures could result in melting glaciers, rising sea levels and droughts. These changes will effect living conditions, animal populations and food availability.