

Creech St Michael Primary School



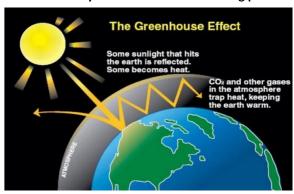
Subject : Geography Topic: What is Climate Change?

Year 5/6

Key knowledge and understanding:

- Each year the amount of carbon dioxide in the atmosphere is increasing, contributing to global warming.
- The world's average temperature has increased by 0.9°C over the last 100 years which is having significant effects and causing more extreme weather worldwide
- Global warming is causing ice sheets, sea ice and glaciers around the North Pole and South Pole and in high mountain ranges to melt.
- Fossil fuels are the main source of carbon dioxide emissions, which, along with other greenhouse gases are the primary cause of changes in weather patterns around the world
- Instead of using fossil fuels, government have been developing renewable energy sources
- the 2015 Paris Agreement between 200 countries set ambitious targets to reduce greenhouse gases and control temperature increases
- There are ways we can all help reduce global warming and climate change.

How global warming is created: Greenhouse gases are trapped within Earth's atmosphere, blocking the heat from escaping the atmosphere. This is a natural effect but it is made worse by more carbon dioxide being produced.



Where: (significant places)		
Arctic		The Arctic is a polar region located around the Earth's North Pole.
Antarctic		The Antarctic is a polar region located around the Earth's South Pole

Antarctic The Antarctic is a polar region located around the Earth's South Pole Who: (significant people) Greta Thunberg a young Swedish environmental activist who has inspired people all over the world to protest against climate change					
Greta Thunberg a young Swedish environmental activist who has inspired people all over the world to protest	Antarctic		polar region located around the Earth's		
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Thunberg environmental activist who has inspired people all over the world to protest	Who: (significant people)				
			environmental activist who has inspired people all over the world to protest		

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What: (key vocab)		
atmosphere	the layer of gases that surrounds Earth	
biome	a large region of Earth that has a certain	
	climate and certain types of living things	
carbon	a gas that is formed by burning fuels and	
dioxide	by the act of breathing and that is	
(Co ₂)	absorbed from the air by plants	
Carbon	the amount of greenhouse gases and	
footprint	especially carbon dioxide given off by	
	something (as a person's activities) during	
alimenta.	a given period	
climate	an area's long-term weather patterns	
fossil fuels	fuels that come from very old life forms	
	such as coal, petroleum, and natural gas	
global	the increase in Earth's average	
warming	temperature over a long period of time air-like substances that can move around	
gas	freely	
greenhouse	gases in Earth's atmosphere that trap heat	
gases	Sases in Earth 5 atmosphere that trap heat	
The	The warming of Earth's surface and the air	
greenhouse	above it caused by greenhouse gases	
effect	, ,	
meteorologist	a type of scientist that studies the	
	atmosphere to predict and understand	
	earth's weather	
Northern	the half of the Earth that is north of the	
Hemisphere	Equator	
North Pole	the northernmost point on the Earth	
Polar Regions	the areas around the North and South	
	Poles.	
precipitation	water moving from the air to the surface e.g. rain, sleet, hail and snow	
renewable	Energy made from resources that nature	
Tellewable	will replace, like wind, water and sunshine	
Southern	the half of the Earth that is south of the	
Hemisphere	Equator	
South Pole	the southernmost point on the Earth	
sustainable	using natural resources in a way that we	
	could keep doing for a long time	
energy	"the ability to do work", how things change	
	and move	
temperature	the degree of hotness or coldness	
	measured using a thermometer	
water cycle	the continuous journey water takes from	
	the sea, to the sky, to the land and back to	
	the sea	
weather	the day to day state of the atmosphere,	
	describing how hot or cold, wet or dry,	
wind	calm or stormy, clear or cloudy it is.	
wind	is the movement of air near Earth's surface	

Geographical skills and enquiry

- Locate the Northern and Southern hemisphere, the Polar Regions and the Arctic and Antarctic Circles on a world map
- Describe and understand how the Polar Regions are changing and explain some of the reasons for change
- Describe and understand key aspects of the Polar Regions
- Observe, measure and record the weather