	Atmospheric circulation	Oceanic Circulation			Causes of climate change				
Equator	Jator Imaginary line drawn around the centre of the Earth		Surface Ocean currents are driven by wind blowing a cross the surface. Deep ocean currents are driven by cool water sinking				Human		
Latitude The distance from the equator		and warm water rising. This redistributes heat a round the ocean just like air currents distribute heat around the air			ovitch Cycles – N es in the Earth's o		Industry – Manufacturing products requires energy which is produced		
Coriolis effect	U		A continuous movement of ocean water from one place to another		n that affect how on we get from th	much by burning fossil fuels – giving ou			
	curve. This is because the Earth is rotating below it	GulfStream	The ocean current that brings warm water from the Caribbean sea to the UK		ariation – The an on the Sun produ		Transport – Cars and Aeroplanes have engines that burn fossil fuels - giving out greenhouse gases		
Jet Stream	A narrow band of fast flowing air in the atmosphere	Thermohaline Circulation	Drives the movement of water. Dense water (cold or salty) sinks, les dense water (warm		ism – Volcanicer ots of ash and dus		Energy – Coal, Oil and Natural gas power plants work by burning		
Polar Cell, Hadley cell and Ferrel	The global Polar Cell movement of air can be	or not salty) rises Past Climate Change		blocks colder	the solar radiatio	n making it	fossil fuels – which releases greenhouse gases		
Cell	air can be broken into			Surface	Impact - When	large	Farming – Farm vehicles like		
	roughly 3 cells. The movement Of air in these Cells is	Quaternary per	A time period – From 2.6 million years ago up to today	objects like asteroids hit the Earth lots of dust is ejected into the atmosphere, blocking the solar			tractors bum fossil fuels. Live stock like cows give out		
		Interglacial peri	od When Earth's climate is warmer		on and making it		methanegas which is a greenhousegas		
	controlled by heating and cooling. Heated	Glacial period	When Earth's climate is colder (by about 5 degrees Celcius)	≈N	Met Office				
	air rises and cooled air sinks	Ice age	A very cold period of time. Happens roughly every 1000,000 years	From: Gr	Polar Maritime Air Mass From: Greenland / Arctic Sea Wet, cold air brings snow in winter: Polar Continental Air M				
Insolation	Incoming solar radiation – The heat and light we get from the sun	Weather Hazards and Climate Change			Beturning Polar Maritime From: Greenland / Arctic via North Atlantic Most, mild and unstable arb bringing cloud and rain showers.				
	effect – Natural process which keeps the Earth n to live on. Greenhouse gases in the trap heat	Weather The state of the atmosphere at a particular place and time for example heat, cloudiness, dryness, sunshine, wind, rain, etc.							
amount of gre	eenhouse effect – Human activity increases the eenhouse gases in the atmosphere, trapping	Climate The weather conditions that happen most often in an area over a long period.			Tropical Maritime Air Mass From: Atlantic Warm, moist air brings cloud, rain and mild weather.				
	at and causing global warming Gas – Carbon Dioxide, Methane, Nitrous Oxide	Negative effects climate change			The UK Climate				
Creemiouse	Evidence of climate change	Lower cropPlants don't grow as well in areas that have becomyieldsor dry. This means less food for people			The UK is between 50o and 60o North of the Equator . The climate is called Temperate				
lce core	A column of ice cut from a glacier or ice sheet (like Antarctica) – bubbles of air, pollen and volcanic ash trapped can give information	Sea Level rise	e on land melts and the water runs into the sea. nermal expansion also happens – warm water has a		Maritime Influence		e Sea. As the UK is surrounded by sea a lot of moisture in it which increases t of rain		
			greater volume than cold water so the seas will exp volume	Janum	Prevailing wind	The direction	on of wind that blows most often		
Sediment cor	re Similar to ice core but in soils, rocks and the sea floor	er	Fresh water stored under the ground. As the sea le salt water infiltration can happen (salt water gets ir fresh water so we can't drink it anymore		Air masses Alarge body		dy of air with the same characteristics ature , moisture and pressure		
Dendrochron	ology Tree rings – Rings are wider on warmer years	Retreating	Glaciers melt and get smaller. This is a problem bec	aller. This is a problem because it		When air is forced to cool when it rises over			
Historical rec	ords Diaries and religious records describe climate conditions		can cause flooding and if they shrink too much the that use them for crops and drinking water won'th enough		rainfall	relief features in the landscape such as hill mountains. As it rises it cools, condenses a forms rain			

Formation of Tropical Cyclones		Why Tropical Cyclones are Hazards		Impacts of Tropical Cyclones				
Low Pressure	An area with lower pressure than nearby. Usually have high winds, and rising air. Air	High Winds Higher than 119km per hour. This can damage buildings and pull trees out of the ground		Social		vironmental	Economic	
weather system	rises when it is warmed	Intense rainfall	Large amount of rain in a short amount of time	Any effect on pe lives, quality of li and happiness	fe lan	ects on the ndscape and Idlife	Effects to do with money and jobs	
Evaporation	High temperatures turn liquid water into a gas called water vapour	Storm Surge	Huge waves - Low pressure allows the sea level to rise and the high winds blowing across the	Deaths, homelessness, la		Trees damaged, chemical leaks, oil spills, mangroves destroyed	Cost of damages, disruption of trade, aid	
Tropics	Two imaginary lines around the earth at 23.5 degrees north and 23.5 degrees south		sea combine to make huge, powerful waves	communication, panic, powercut	sp			
	of the equator	Coastal Flooding	Land at the coast gets covered in water – caused by the intense rainfall and storm surges	lack of supplies	ue:			
Track	The path a cyclone takes . The direction of travel is driven by the prevailing winds	Landslides	Soil slides down slopes and can crush buildings and block rivers. They are caused by the intense			gs needed for Tropical cyclone to form		
Frequency	How often something happens		rain making the soil heavy	Warm moist air -		er		
Eye wall	A ring of towering thunderstorms where the most severe weather and highest	Saffir Simpson Scale	Rates the strength of a cyclone based on the wind speed	Warm time of year Winds need to be coming together (converging) causing the air to rise				
	winds occur.		The size or extent of compthing	Above of below the equator so the coriolis effect can cause it to spin				
	Causes of drought	Magnitude	The size or extent of something					
Arid	An area that has little or no rain; too dry or barren to support vegetation	Weather	r Hazards and Climate Change	convection currents eye cool dense air winds, thunderstorms Calm Inner zone Outer high humidity				
Dam	A wall built on a river. This traps the water and creates a large lake called a reservoir. It stops as much water flowing downstream which can cause drought further down the river	Hydrological Drought Meteorologic Drought	The impacts of low precipitation on a drainage basin al The level of dryness in an area caused by the amount of rain that falls there	hurricane winds warm			escending rising	
Deforestation	Chopping down trees. Trees absorb			and rain moist air Vortex Vortex				
	water from the ground and release it into the air. This water can then condense to form clouds and fall as rain. If the trees are chopped down this doesn't happen	Warm rising air causes thunderstorms and floods.	Why Droughts are Hazardous					
		Australia	Trade winds blow westwards.	Aquifers	Stores of v	res of water underground		
Agriculture	Farming – Water is taken from and area to use on crops in another area. This can leave the first area without enough water, causing drought	NORMAL	Varm surface water Strong surface currents Ccean Upwelling of cold deep water Warm sign air causes	Subsidence	When water is taken from ground water a during a drought it changes the structure o causing it to sink			
Over Abstraction	Removing too much water from the ground	Dry sinking air causes droughts.	Atmosphere Trade winds reverse direction. Warm rising air causes thunderstorms and floods. South	Wildfire	A large uncontrolled fire . When plants get dried out during a drought a fire can start easily by lightning strike or humans leaving bbqs or cigarettes etc.			
Transpiration	Evaporation from the leaves of plants	Australia	surface currents reverse.	Vulnerability	How much people in an area might be harmed by a hazard . This can be different for rich and poorareas			
El Nino	A change in the pattern of wind between Australia and South America	EL NIÑO Cold d	leep water Ocean Cold upwelling Ceases		for examp	ble		