Year 8 – Wild Weather



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		hat should I already know? Location of continents and oceans		Key vocabulary and definitions		
Wild weather is a topic to develop an understanding	Locatio			Weather	The state of the atmosphere at a particular place and time as regards heat, cloudiness, dryness, sunshine, wind, rain, etc.	
of weather and climate locally		British Isles geography JK and the surrounding land masses How to present data		Climate	Climate is the long-term weather pattern in an area, typically averaged over 30 years. Precipitation is any liquid or frozen water that forms in the atmosphere and falls back to the Earth (rain, sleet, and snow).	
				Precipitation		
lives.				Air mass		air with the same temperature
				Microclimate	A small area with a significantly different temperature and humidity to its surroundings.	
Measuring the weather						
Weather Instru variable	ument		G	obal Climate	Zones	
Air Thermo	ometer	and a series of the series of	LA LA		2	Tropical - hot and wet
	ometer	and the second s		Sulp	ARCTIC	Mediterranean – mild winters, hot summers
Wind Wind direction	vane	Se CO CS	dis de la	-	A Start	Dry – hot and dry
Precipitation Rain g	gauge		E-M			Temperate – cold winters
Cloud cover Satellite or naked eye		C C Seo				and mild summers
Air pressure Barometer		Tropical	<u> </u>			Mountainous – cold
Cause-and-effect describes a		Mediterranean Dry	{	} {		Continental – cold winters
relationship in which a certain		Temperate 2 Mountainous				and hot summers
event (the cause) makes another event happen (the effect). The		Continental 🥰			ANTARCTIC.	Polar – cold and dry
weather is a "cause" as it can						
make other things happe example, the wind can n		Countries around the world have	e differe	nt climates. Neo	ar the equator, co	ountries have hotter climates
leaves move. And the Arctic and Antarctic have much colder climates. Climates can affect many things, such as						affect many things, such as
L - S	🕊 / 🔪	which plants can grow. Many ar	nimals ai	re specially add	pted to the climo	ate they live in.

Anticyclones are high pressure weather systems that bring sunny weather to an area and no (or very little) rain. Once anticyclones develop they tend to remain for several days, bringing dry, bright and settled weather to the UK. There is also very little wind during anticyclone conditions.

Urban Temperatures

An urban heat island is an urban area which is **warmer than its surrounding rural areas**. The temperature **difference is usually larger at** night than during the day, and is most **apparent when winds are weak**.





EAST

Climate in the United Kingdom

Britain has a temperate climate, this means that weather in the country can be variable.

as Snowdonia or the Pennines.

WEST

Some of the factors that influence the weather and climate in the UK are: Further North and South the curve of the • Location – the suns energy is spread over a larger area due Earth means that the same amount of So it is less solar radiation has more land to cover to the curvature of the Earth. • **Prevailing wind** - ours comes from the tropics to the South West. This brings plenty of rainfall. The sun's energy hits the 4.Eventually, the amount of Equatorial regions flat on 1.The prevailing condensation is greater wind for the than the amount of British Isles evaporation so water comes from the droplets form at cloud base. 5.When the West. It is 3.As the air rises it droplets are big 6.On the Eastern side of the upland generally humid cools and pressure areas the air has less moisture as it enough it rains. after travelling falls has rained out. This is a drier area over the sea. known as the **RAINSHADOW** an an an an ange a **Cloud base** Irish Sea 2.When the air reaches Great Britain it is forced to rise over our upland areas such

Winter Summer

The weather in an anticyclone



Warmer air meets colder air at areas that we call **FRONTS**. At a **warm front**, warm air rises gently over colder air creating nimbostratus and higher cirrus clouds. At a **cold front**, cold dense air pushes warmer air up to create large cumulonimbus clouds.