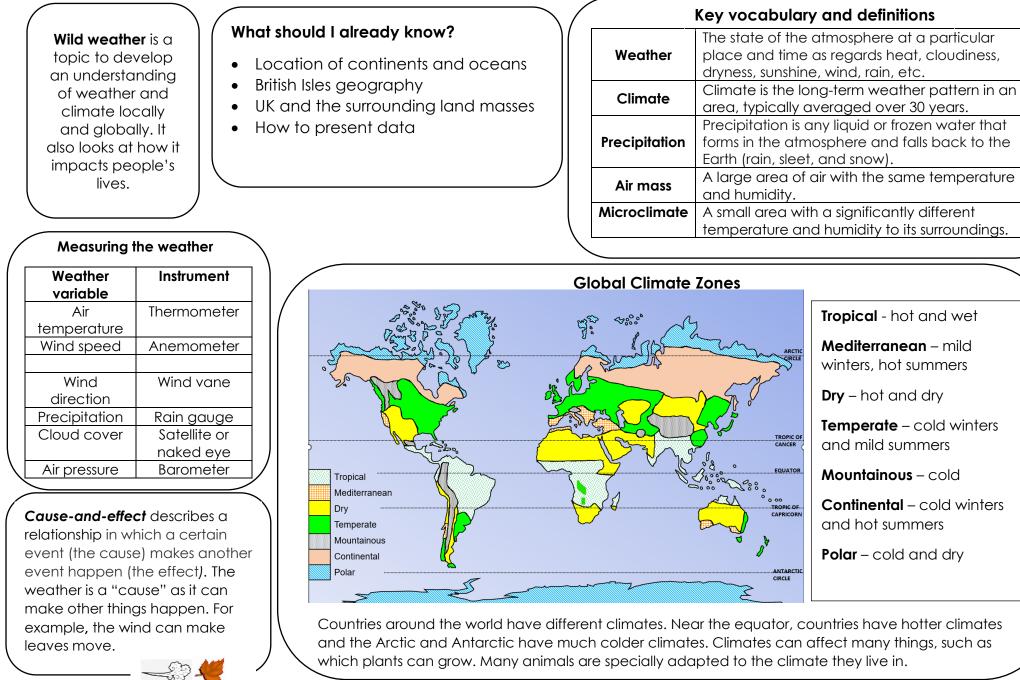
Year 8 – Wild Weather





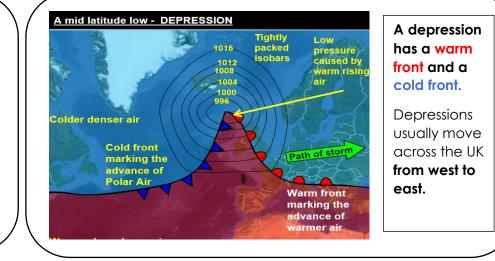
Anticyclones are high pressure weather systems that bring sunny weather to an area and no (or very little) rain. Once anticyclones develop they tend to remain for several days, bringing dry, bright and settled weather to the UK. There is also very little wind during anticyclone conditions.

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.



WEST

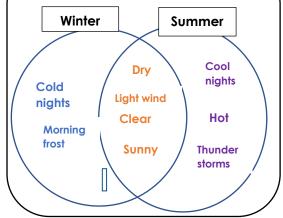


EAST

Climate in the United Kingdom

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

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 6.On the Eastern side of the upland droplets are big 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 11 11 11 11 111 **Cloud base** Irish Sea 2.When the air reaches Great Britain it is forced to rise over our upland areas such as Snowdonia or the Pennines.



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.