

Year7 Unit 4 Overview - Weather and Climate:

What causes difference types of weather and climate?



You will learn about

- What causes the weather
- How the weather is measured
- Types of weather and climate

You will be able to

- Identify the difference between weather & climate
- Discuss what instruments are used to measure the weather
- Compare microclimates around school

<p>Lesson Overview</p> <ol style="list-style-type: none"> 1. What is the weather and how is it measured? 2. What causes the weather? 3. How do you forecast the weather? (What are the different types of clouds and rain?) 4. What are the different types of extreme weather? 5. What is the climate and why do places have different climates? 6. What are the micro-climates around the school grounds? (fieldwork) 	<p>Key Words</p> <p>Air pressure -the weight of air pressing down on the Earth’s surface</p> <p>Anemometer - an instrument for measuring wind speed</p> <p>Barometer - an instrument for measuring air pressure</p> <p>Climate - the average weather in a place</p> <p>Cloud cover - how much of the sky is hidden by cloud – measured in eighths (oktas)</p> <p>Convection rainfall - rain caused by the sun heating the ground</p> <p>Drought - a shortage of water</p> <p>Frontal rainfall - rain caused when a warm front meets a cold one</p> <p>Microclimate - the distinctive climate of a small scale area e.g. a garden</p> <p>Okta - a unit to measure cloud cover – 0 = clear sky 8 = overcast</p> <p>Precipitation - water falling from the sky - rain, hail, sleet or snow</p> <p>Rain gauge - an instrument for collecting and measuring the amount rain which falls</p> <p>Relief rainfall - rain caused when air is forced to rise over a hill or mountain</p> <p>Thermometer - an instrument used for measuring temperature</p> <p>Visibility - the greatest distance you can see in km or m</p> <p>Weather - the state of the atmosphere around us</p> <p>Wind vane - an instrument for showing the wind direction</p>					
<p>Suggested reading:</p> <p>The Cloudspotter’s Guide by Gavin Pretor-Pinney</p>	<p>Cross curricular</p> <p>SMSC: Understanding differences in weather and climate in different countries</p> <p>Literacy: Extended writing to explain using PEEL and making comparisons, plus inference from sources</p> <p>Numeracy: Use of data in measuring the weather and microclimates Mean, Median, Mode. Describing and explaining trends.</p>					
<p>Research</p>	<p>Note-making</p>	<p>Group work & discussion</p>	<p>Memorisation</p>	<p>Precision & accuracy</p>	<p>Independence</p>	<p>Reflection</p>