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| Unit: How do weather and climate affect our planet? | **Learning Journey**  |
| The aims are:**LG1**: Knowledge Difference between weather and climate. Basic principles, processes and patterns of weather and climate. Characteristic features and formation of different weathers – such as anticyclones.  **LG2**: Application How weather affects our daily lives and the different weather experienced in the UK. Different climates around the world. **LG3**: Skills  Measuring and recording weather. Synoptic charts, weather charts, climate graphs, climate maps. Photos, satellite images, statistical data, diagrams.  |  My target grade=My strengths from the last topics=My areas to improve=Assessment results= | Topic specific key terms:Air pressure Anticyclones Climate graphs Clouds Cold front Condensation Convectional rainfall Depression Dew Dew point temperature Drought Frontal rainfall Frost Humidity  |
| **Themes** | **Learning Goals/Outcomes/Content** |  |  |  |
|  What is weather and climate? | LG1 Understand key elements of ‘the weather’ and how it can affect people. |  |  |  |
| How do we measure the weather? | LG1 Describe how elements of the weather are measured. |  |  |  |
| How can weather data be recorded and presented? | LG2 Know and use synoptic code and understand how weather data is presented to the public. |  |  |  |
| What causes weather? | LG1 Know how water vapour and the sun create our planet’s weather. |  |  |  |
| What are clouds why does it rain? | LG1 To understand how clouds form and the different types of rainfall |  |  |  |
| What are air pressure and anti cyclones? | LG1 Understand difference between high and low pressure weather.To recognise the characteristics of anticyclones. |  |  |  |
| How can we forecast the weather in depressions? | LG1 Describe the features of a depression / low pressure area |  |  |  |
| Why is the UK’s weather so changeable? | LG2 Apply knowledge of air masses and air pressures to explain why UK weather changes quickly. |  |  |  |
| What is the climate of the UK? | LG1 To know the climate zones of the UK and interpret climate graphs and diagrams. |  |  |  |
| How does climate vary across the World? | LG1 To describe climate distribution around the world.  To identify reasons for variation in climate.  |  |  |  |
| End of topic review and assessment. |  |  |  |  |

Isobars

Isotherms

Occluded front

Precipitation

Relief rainfall

Sunshine

Synoptic codes and charts

Temperature

Warm front

Warm sector

Weather

Weather stations

wind

**Links:**

Builds on KS2 geography: Knowledge of different places at a global scale and knowledge of the UK. In primary you should have developed a basic understanding of the weather, seasons and climate in some places around the world. Builds on basic map skills of compass, direction, map use, keys

Links to other KS3 units:  Geography of Russia / Middle east / Africa/ Asia/ Development / climate change/ Water on our planet

 Links to KS4 GCSE units: Component 1 Hazardous earth – climate. Component 2 - UK’s physical landscapes and UK’s evolving human landscapes.

Links to KS5 A level units: UK coasts – influence of weather and climate on coastal processes and landforms. Climate change.