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| Unit 11: Climate Change and Earth’s Future | **Learning Journey**  Impacts  Mitigation  Precession  Social  Sunspots  Volcanic activity  Weather | | | | |
| The aims are:  **LG1**: Knowledge Difference between weather and climate. Evidence for climate change and the processes controlling Earth’s climate, both natural and human.  **LG2**: Application How climate change is affecting our daily lives on different scales, regional, national, and global. Application of our understanding of the processes and dangers to know how to adapt and mitigate climate change.  **LG3**: Skills Climate graphs, prediction of future climates, bar graphs, line graphs, presentation, extracting information, and decision making. | My target grade=  My strengths from the last topics=  My areas to improve=  Assessment results= | Topic specific key terms:  Adaptation  Asteroid theory  Axial tilt  Climate  Climate change  Consequence  Eccentricity / orbital theory  Economic  Effect  Environmental  Greenhouse effect  Greenhouse gases | | | |
| **Themes** | **Learning Goals/Outcomes/Content** | |  |  |  |
| What is the Climate? | LG1: To understand the difference between Weather and Climate.  LG2 & 3: Know how to interpret a climate graph using TEA. | |  |  |  |
| What is the evidence for Earth’s changing climate? | LG1: To know the evidence which demonstrates Earth's climate has changed.  LG2: To assess the reliability of the types of evidence used by scientists. | |  |  |  |
| What are the natural causes of climate change? | LG1: To know the six different ways Earth’s climate can change naturally.  LG2: To decide which cause will have the greatest impact on Earth’s climate. | |  |  |  |
| How are we causing the climate to change? | LG1: To understand the greenhouse effect and enhance greenhouse effect. To understand how human actions create greenhouse gases. | |  |  |  |
| What are the impacts of climate change? | LG1: To understand the different impacts of climate change.  LG3: Analyse global temperature and precipitation maps. | |  |  |  |
| What are the impacts of climate change in the UK? | LG1: To understand the different impacts of climate change specific to the UK.  LG2: Apply impacts to different scales: regional, national, and global. | |  |  |  |
| How can we adapt to climate change? | LG1: To understand what adaptation means. To understand the different strategies we can use to help respond to climate change.  LG3: You will be able to decide what adaptation strategy is best for a group of different people. | |  |  |  |
| How can we mitigate climate change? | LG1: To understand what mitigation means. To understand the different strategies we can use to mitigate climate change.  LG3: Complete a line graph on afforestation rates in the UK. Complete a comparison bar graph to see the changing energy mix of the UK. | |  |  |  |
| End of topic review and assessment. |  | |  |  |  |

Builds on KS2 geography: Knowledge of different places at a global scale and knowledge of the UK. KS1 and KS2 pupils should have developed a basic understanding of the weather and climate in some places around the world. Builds on basic map skills of compass, direction, map use, keys

Links to other KS3 units: What is Development? / How do the weather and climate affect the planet? / How are Coastal landscapes shaped and used?

Links to KS4 GCSE units: Component 1 Hazardous earth – Climate. Component 2 - UK’s physical landscapes and UK’s evolving human landscapes. Component 3- People and Environment Issues.

Links to KS5 A level units: UK coasts – influence of weather and climate on coastal processes and landforms. Water Cycle and Insecurity, and Carbon Cycle and Energy Security