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| **What will we be learning?**  **Climate** | **Why this? Why now?**  Previous Learning  Earth Structure, Acids and Alkalis, Interdependence, respiration  Future Learning  GCSE – Atmosphere, Using Resources  A Level – Chemical reactions of the alkanes, Haloalkanes  Enquiry Processes  Draw conclusions, Justify opinions | **Key Words:**  Global Warming  Greenhouse Effect  Fossil fuels  Ecosystem  Photosynthesis  Respiration  Radiation  Temperature  Environment  Recycle  Emissions  Carbon dioxide  Methane  Atmosphere |
| **What will we learn?**  You will be able to describe the processes of photosynthesis and respiration. You will be able to identify some causes of the Greenhouse effect and describe how global warming can cause climate change.  You will be able to draw and label a diagram of the carbon cycle.  You will be able to describe how human activities add carbon dioxide to the atmosphere  You will learn to analyse and evaluate data about global warming and come to your own conclusion  **Misconceptions in this topic**  **‘**Global warming’ refers to the rise in global temperatures due mainly to the increasing concentrations of greenhouse gases in the atmosphere. ‘Climate change’ refers to the increasing changes in the measures of climate over a long period of time- including rainfall, temperature and wind patterns. | |
| **What opportunities are there for wider study?**  Careers- Renewable Energy Scientist, Climatologist, Conservation Scientist, Environmental engineer, Agricultural engineer, Food scientist, Ecologist  STE(A)M  https://highcliffe.sharepoint.com/sites/LearnSTEM | |
| **How will I be assessed?**  End of Topic Test, PLC for self-assessment | |