



Topic Overview
 Faculty/Subject: Geography
 Year Group: 8
 Topic: Climate Crisis



What BIG IDEAS will you cover in this topic? What climate change is and how it works – understanding the science behind global warming and the greenhouse effect. What evidence shows the climate is changing today – using data such as temperature records, ice cores and extreme weather trends. What causes climate change – comparing natural factors with human activities like burning fossil fuels and deforestation. How climate change affects people and places – looking at impacts in the UK, rising sea levels and what life could be like at 50°C. How we can respond to the climate crisis – considering mitigation (reducing causes) and adaptation (living with the effects).	What other <u>key concepts, knowledge and skills</u> will you learn in this topic? Climate science basics: understanding atmospheric processes and energy balance. Human–environment interaction: exploring how people affect the environment and how the environment affects people. Decision-making and evaluation: judging which solutions are most effective, realistic or fair. Geographical skills: reading climate graphs, interpreting case studies and understanding global patterns. Extended writing skills: practising structured, evidence-based responses for the assessment.
What important <u>prior knowledge</u> will you use from your prior learning? Students will draw on their knowledge from year 7 when we studied glaciation in the UK when covering how temperatures have changed over time. They will also be able to link this topic to their studies on extreme weather, tropical storms and droughts. Where does this topic fit into the <u>curriculum plan</u> for this subject? This is the fourth topic which students in year 8 will study. It is the second physical geography topic.	Assessment: How and when will you be assessed on this topic? What will the success criteria be? Mini assessment - Students will complete a small assessment made up of multiple choice questions and some written questions to test their understanding up to that point in the topic. Students will also be assessed by an end of topic assessment covering the various aspects of the lessons outlined below. There will be a variety of knowledge based questions, longer answer written questions and skills based questions using maps and graphs.
What is the key <u>vocabulary</u> that you will need to know in this topic? Climate / Weather Climate change Global warming Greenhouse effect Greenhouse gases (CO₂, methane, nitrous oxide) Enhanced greenhouse effect Fossil fuels Deforestation Mitigation Adaptation Sea-level rise Extreme weather Carbon capture Renewable energy Sustainability	What is the structure of learning/ lessons in this topic? 1. What is climate change? 2. Greenhouse effect" 3. Causes of climate change 4. UK Effects" 5. Life at 50°C 6. Rising sea levels 7. Carbon capture