



Year 8 Topic 2 - Sustainability 12 Lessons

Aims: This unit of work explores how our climate has changed over time and the impact this has on us. It explores different historical periods of climate and evidence for previous climate change. Students will examine how climate change is managed, along with various mitigation strategies, as the world adapts to a changing climate.

Links To KS3 National Curriculum:

Students will understand key elements of physical geography relating to geological timescales, weather and climate, including the change in climate from the Ice Age to the present; and glaciation. Students will understand how human and physical processes interact to influence, and change landscapes, environments and the climate; and how human activity relies on effective functioning of natural systems.

Links to KS4:

- Edexcel B, Paper 2 – Topic 4 – The UK’s Evolving Physical Landscape (changes in climate)
- Edexcel B, Paper 2 – Topic 5 – UK’s Evolving Human Landscape (sustainability)
- Edexcel B, Paper 3 – Topic 7 – People and the Biosphere
- Edexcel B, Paper 3 – Topic 9 – Consuming Energy Resources

Key Skills	Literacy Links:	Numeracy Links:
<ul style="list-style-type: none"> • Analyse and communicate with a range of data • Interpret a range of sources of geographical information, including maps, diagrams, globes, aerial photographs and Geographical Information Systems (GIS) • Communicate geographical information in a variety of ways, including through maps, numerical and quantitative skills and writing at length. • Build on their knowledge of globes, maps and atlases • Topographical and other thematic mapping, and aerial and satellite photographs • Use Geographical Information Systems (GIS) to view, analyse and interpret places and data 	<p>Key words:</p> <ul style="list-style-type: none"> • Climate; paleoclimatology; mitigation; sustainability; quaternary; proxy; dendrochronology; Little Ice Age; Medieval Warm Period; Orbital Theory; Sunspot Theory; Eruption Theory 	<p>Map skills, using data and graphs.</p>

Assessment	Cross-Curricular Links
	<ul style="list-style-type: none"> • Science

<p>An exam-style paper, consisting of a mixture of questions ranging in marks from 1 to 8. These will include short answer, multiple choice, longer written answers and interpretation and use of given figures and data.</p>	<p>SMSC opportunities and British values</p> <ul style="list-style-type: none">• Use imagination and creativity – thinking about managing climate change• Moral – investigating moral and ethical decisions in relation to climate change and sustainability.• Offer reasoned views.• Appreciate diverse viewpoints.• Appreciate cultural influences.
<p>Opportunities for further learning</p>	
<ul style="list-style-type: none">• Option 1: Revise Core Facts for the unit from your knowledge organiser• Option 2: BBC KS3 Geography Bitesize – Sustainability (https://www.bbc.co.uk/bitesize/topics/z2vkjxs)• Option 3: Further reading on Intergovernmental Panel on Climate Change (IPCC) (https://www.ipcc.ch/)	