

Subject	Year	Term
Geography	8	Autumn term 1
Topic		Concept
Will the planet continue to get hotter and hotter?		Sustainability

Content + skills (Intent)

Prior Learning (Topic)

KS1/2

- Naming Oceans and Continents
- Weather patterns at the equator and poles
- Using atlases and globes, lines of latitude, Antarctic and Arctic circle
- Physical Geography Climate zones

KS3 at Balcarras: How sustainable is Balcarras and Charlton Kings? Why do oceans need protecting? Human impacts on the physical landscape (Year 7).

Pupils will start by investigating the patterns of climate warming and cooling over short and long term time scales before exploring a range of climate change evidence such as tree rings and ice cores. They will then investigate the human and physical causes of climate change. Pupils will then learn about the impacts of climate around the world. Pupils will also investigate the concept of extreme weather, focusing on what it is and whether it is becoming more common. To conclude the unit, pupils will explore the options of adaptation and mitigation and evaluate the potential of each. Misconceptions about climate change will be addressed throughout the topic.

Future Learning (Topic)

KS3 @ Balcarras: Why is the UK weather so changeable? What is the future of Antarctica? (Year 8)

How and why are ecosystems important?, Is 'clean water for everyone' achievable? (Year 9)

KS4 @ Balcarras: UK physical landscapes- glacial (Year 10), Natural hazards (Year 10) The living World (year 11), Resource management (year 11)

KS5 @ Balcarras : Hazards, Coasts (Year 12) Water and Carbon (year 13), Global Governance (year 13), Population and the environment (year 13)

How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)
Pupils will begin by looking at the evidence for climate change, Then looking at causes of the greenhouse effect; both human and natural, the importance of these will be evaluated. Then they learn about the impacts of climate change around the world. There is a lesson looking at climate change refugees and the impacts on them. Finally they consider how to mitigate and adapt to climate change.	Guided Reading homework Decision making on causes, impacts and responses to climate change. Marks for homework tasks Marking of classwork/tasks

How can parents help at home?

Discuss current affair issues by watching/reading the news. Download the BBC or Guardian news app and set to environmental/science notifications to receive the most update articles. Or visit pages such as [Climate crisis | The Guardian](#)

Watching relevant documentaries, such as David Attenboroughs 'climate change the facts'.

Useful websites:

NASA's information website on climate change [A Guide to Climate Change for Kids | NASA Climate Kids](#)

Climate change on BBC Bitesize [Causes of climate change - BBC Bitesize](#)

WWF carbon footprint website [WWF Footprint Calculator](#)

The world counts for countdown clocks on the state of the planet. [Why is Climate Change Important? \(theworldcounts.com\)](#)

Conversation Starters:

Human Causes of climate change are more significant than Natural Causes

The Greenhouse effect is a good thing

How do we know about climate change

We can't do anything about climate change

We should mitigate and stop climate change from happening

Lets just adapt to a changing world

Who's responsibility is it to look after climate change refugees?

Can we limit climate change to 1.5C?

Every little thing has an impact on the planet, lets make the best use of our time

What is Eco-anxiety?

Helpful further reading/discussion

Reading

[Climate Action](#) by Georgina Stevens

[Climate Rebels](#) by Ben Lerwill

[The Carbon-Neutral Adventures of the Indefatigable Envioteens](#) by First Dog On the Moon

[Death and Sparkles](#) by Rob Justus

[Beetles for Breakfast](#) by Madeleine Finlay

[Challenge Everything: The Extinction](#)

[Rebellion Youth Guide to Saving the](#)

[Planet](#) by Blue Sandford

There is no Planet B Mike Berners Lee

How Bad are Banana's, the carbon

footprint of everything by Mike

Berners Lee

Vocabulary Lists

Environment

Sustainable

Carbon footprint

Greenhouse gas

Enhanced greenhouse effect Direct emissions

Indirect emissions

Climate change

Renewable

Non-renewable

Fossil fuels

Global warming

Carbon neutral

Consumption

Careers Links

Sustainable analyst

Sustainable marketing

Sustainability consultant

Sustainability manager

Program officer

Environmental engineer

Entrepreneur

All fields will have aspects of sustainability in the future, this could include the circular economy, social issues, oceans, habitats and wildlife, etc

<https://youmatter.world/en/jobs-careers-sustainability-options/>

<https://www.careers.ox.ac.uk/sustainability-environment#collapse1527571>

<https://www.youtube.com/watch?v=74QHS6O6egE>