

CLIMATE CHANGE- OUR OCEANS

OVERVIEW AND CURRICULUM LINKS

This discussion based workshop explores and examines the effects of the 4 main concepts contributing to global warming.

Using accredited data, the 3D magic globe and bioartefacts, students will develop their understanding of increasing global oceanic temperatures and levels, acidification and deoxygenation occurring in the oceans.

Finally students are encouraged to consider their own impact on the environment, and suggest possible personal, local and global solutions to lessen carbon dioxide output and allow the oceans the opportunity to recover.



KS4+



Science &
Citizenship



40 Minutes

OBJECTIVES

- Understand how the oceans are affected by climate change globally
- Understand how our own UK waters are affected by climate change
- Increase understanding about life style changes to reduce climate change

LEARNING SESSION CONTENT

This workshop starts with a look at how our position in space causes normal planetary warming and cooling, then moves on to explore the four areas of change in our oceans.

Oceans are getting warmer, losing oxygen, becoming more acidic and sea levels are rising.

Each change is looked at globally and then locally, showing how animals in our waters are being affected.

The scientific work done by the British Antarctic Survey is used to show how understanding climate change is always data driven.

The current research done by the Deep on corals and current research done by Hull University on hermit crab senses is discussed to increase understanding of the effects of climate change on UK animals.

Finally understanding how our own lifestyles produce CO₂ is explored using a game and ways to reduce carbon dioxide and mitigate climate change are discussed.

This presentation does aim to talk about climate change in a positive manner and how we can help to mitigate it.