

CLIMATE CHANGE- CHANGING OCEANS

OVERVIEW AND CURRICULUM LINKS

This informal interactive discussion based workshop explores the effects of global warming.

Using the 3D magic globe and bioartefacts, students are encouraged to consider the effects of increasing sea temperatures, rising sea levels, increasing acidity and oxygen loss.

To conclude students consider their own personal impact, the overall impact of humans and the measures that could be implemented to aid ocean recovery and help save the planet.



KS3



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.

Each area 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 are talked about to increase understanding of the effects of climate change on UK animals.

If time allows there is a practical using mussel shells in vinegar to demonstrate how ocean acidification is harming shelled 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, how we can help to mitigate it.