

KEY STAGE 3 - LESSON 1: CLIMATE CHANGE

INTRODUCTION

Climate Change is described as the greatest challenge of our time, but what is it, what's causing it, and what is it doing to our coastline?

In this lesson we explore Earth's atmosphere, the effect of greenhouse gases on our planet, impacts from climate change and how to combat climate change.

TEACHING AND LEARNING

Task 1: Watch the video and run through the presentation:

- The presentation compliments the video and explores climate change, it's impacts, what is causing it, and ways to combat it.

Task 2: Complete the Quiz

- Go through the accompanying quiz as a class, with the learners either writing answers or calling out answers: there are 5 questions to go through summarising the learning.

Task 3: Practical Activity: Carbon Capture

- Trap carbon dioxide in a bottle and heat, exploring the effect of carbon dioxide in trapping and storing heat as opposed to standard air.

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LEARNING OUTCOMES:

- 1) Learn the main gases composing Earth's atmosphere
- 2) Know how climate change is impacting our planet
- 3) Know how we are working to mitigate climate change

CURRICULUM LINKS:

SCIENCE

Atoms, elements and compounds :

- A simple (Dalton) atomic model
- Differences between atoms, elements and compounds
- Chemical symbols and formulae for elements and compounds

Earth and atmosphere:

- The composition of the atmosphere
- The production of carbon dioxide by human activity and the impact on climate.

GEOGRAPHY

Human and Physical Geography:

- 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