

# HOT NEWS! CLIMATE CHANGE

Hot News! Explore the 'bigger picture' of climate change.

Through experiments and interactive activities pupils begin to understand how CO<sub>2</sub> is changing the chemistry of the oceans. Pupils explore how these changes affect coral reef and rock pool habitats and the animals who live there. Discover how The Deep's aquarists are working to help animals impacted by



KS2



Science, Citizenship  
& Geography



40 Minutes

## OVERVIEW & CURRICULUM LINKS

**KS2 Science:** Living things and their habitats. Pupils should explore examples of human impact (both positive and negative) on environments.

**KS2 Citizenship:** to research, discuss and debate topical issues, problems and events, to be taught about the range of jobs carried out by people they know, and to understand how they can develop skills to make their own contribution in the future,

## OBJECTIVES

Pupils can:

- Understand how the chemistry of the ocean is changing and understand what is Ph.
- Understand how climate change affects different habitats and the animals that live there.
- Begin to understand how The Deep works to address climate change in the world.

## LEARNING SESSION CONTENT

### INPUT

Take a whistle stop tour of the history of the Earth from the Big Bang to today and help children understand how the balance of the Earth has been altered over time.

Children engage in a simulation and experiment which explains how CO<sub>2</sub> dissolving in the water alters the water chemistry of the oceans.

Through a range of activities learn about:

1. How coral reefs are affected by climate change.  
Play the game and understand how coral reef habitats are threatened by climate change.
2. Investigate how rock pool habitats are affected by climate change.  
Begin to understand how changes in the water chemistry affects how animals communicate and what this means for their survival. Learn about the effect on the whole rock pool ecosystem.
3. What is toxicity?  
How is climate change affecting the toxicity of animals who live in the oceans? How does the change in water chemistry affect Pufferfish? What does this mean for humans?
4. What is the Deep doing to help climate change?  
Learn how The Deep's aquarists Seb