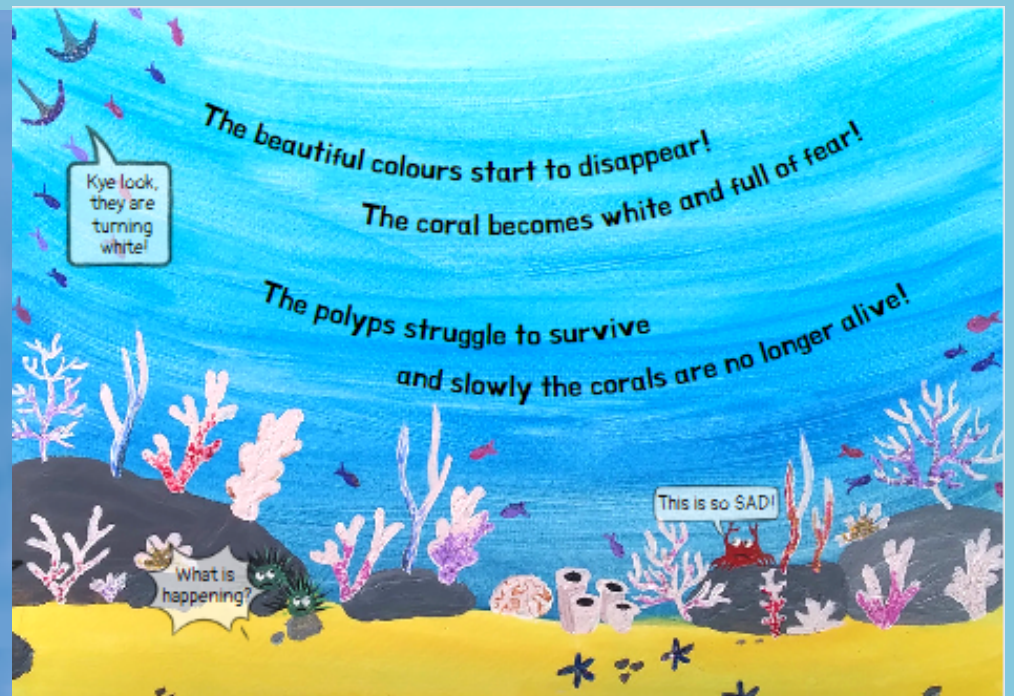
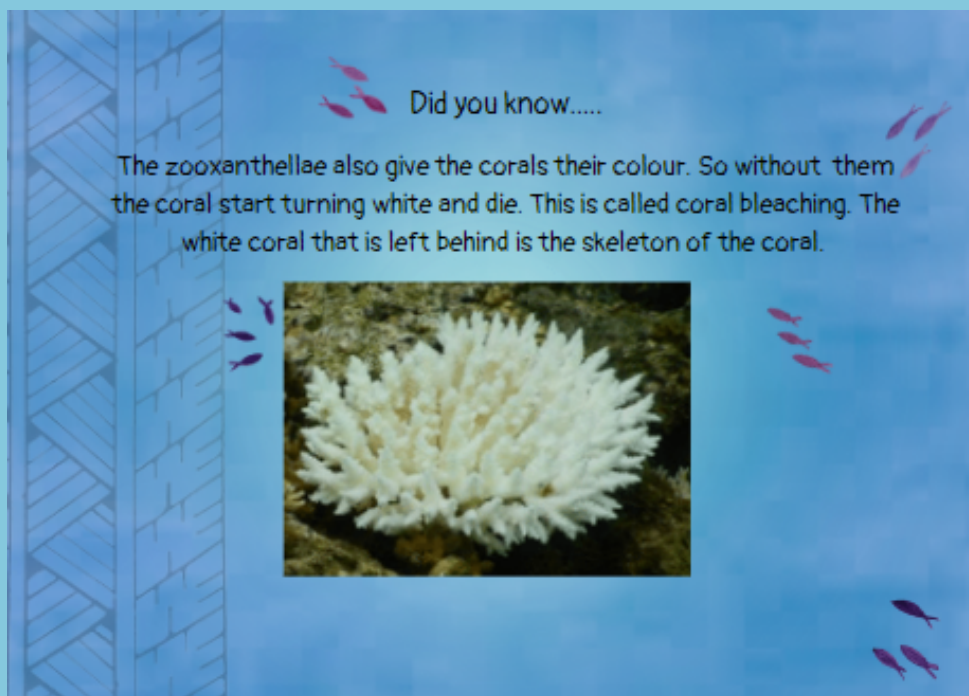


Activity 5 - Coral Bleaching



Lesson Overview

Coral reefs are at high risk from ocean temperatures rising, this can cause many coral species to expel their algae helpers, which in turn causes them to turn white (coral bleaching). Water temperatures increasing is one of the direct results of climate change. Our increased use of carbon not only affects climate change and increases the water temperature it also makes the water become more acidic. In these following pages find out more about how the increased carbon in our atmosphere affects coral reefs.

Inquiry questions

You could ask these questions before you begin and then again at the end.

- What is coral bleaching?
- What causes coral bleaching?
- What is ocean acidification?
- What is the impact of ocean acidification on coral?

Ocean Literacy Principles



Watch this video to learn more about what Ocean Literacy is.



Principle #6

The ocean and humans are inextricably interconnected.

These activities connect to Principle 6. To learn more check out this website



Activity - What is coral bleaching?

Watch these videos to get a better understanding of what coral bleaching is and how it happens.

SCAN ME

A great video but more suitable for upper primary students

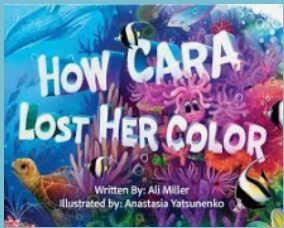


SCAN ME

A very informative video about coral bleaching



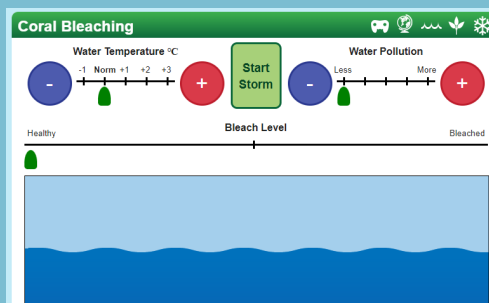
Check out this story, game and experiment to learn more about coral bleaching.



Check out this story that explains coral bleaching in an engaging way.



Have a go at this interactive coral bleaching game by NASA kids



Here is a cool experiment if you can find the special paint



Find out more with this infographic

A sad realization of what would happen if coral reefs die off. Before watching the video you could get children to brainstorm what would happen if there were no more coral reefs.

SCAN ME



Try the visible thinking routine
Imagine if....



Activity - Ocean Acidification ?

Here are three great videos that help explain what Ocean Acidification is and the effects it has on the Ocean.

SCAN ME



SCAN ME



SCAN ME



As you watch the videos above or have a go at the experiments below maybe try and use this visible thinking routine to get students to think about their understanding of Ocean Acidification.

What Makes You Say That?



A routine for Interpretation with Justification
PURPOSE: THIS ROUTINE HELPS STUDENTS DESCRIBE WHAT THEY SEE OR KNOW AND ASKS THEM TO BUILD EXPLANATIONS. IT ENCOURAGES EVIDENCED-BASED REASONING, ACCEPTANCE OF VARIED VIEW POINTS. WHAT MAKES YOU SAY THAT?

MAKING THINKING VISIBLE

RITCHHART, CHURCH, AND MORRISON 2011

Encounter Edu demonstrate a great experiment that can be done with students



After understanding how the Ocean becomes more Acidic now try and experiment to find out the impact it has on certain animals

Sea Camp have made this video showing an experiment you can try at home

