

Teacher Resource

Episode 7 17th March 2020

Reef Bleaching

O Focus Questions

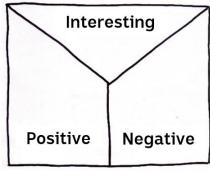
- 1. Briefly summarise the BTN Reef Bleaching story.
- 2. What is a ghost reef?
- 3. What are some threats to the survival of coral reefs? Give 2 examples.
- Where is the Great Barrier Reef? Find using Google Maps.
- 5. What is coral bleaching?
- 6. What colour does coral go when it is bleached?
- 7. Coral gets most of its energy from algae. True or false?
- 8. What happens to the algae if ocean water heats up too much?
- 9. What happens if coral stays bleached for too long?
- 10. Scientists say that over the last hundred years, the average ocean temperature has increased by about:
 - a. 1 degree
 - b. 2 degrees
 - c. 5 degrees

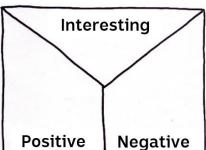
Activity

Note taking

Students will practise their note-taking skills while watching the BTN Reef Bleaching story. After watching the story, ask students to reflect on and organise the information into three categories. What information in the story was ...?

- Positive
- Negative or
- Interesting





Students may want to watch the story again or download a copy of the BTN Reef Bleaching transcript to assist them with this activity.

Activity

Class Discussion

Hold a class discussion about the issues raised in the BTN story. Use the following questions to help guide discussion:

- What do you know about coral?
- What words would you use to describe coral?
- Why are coral reefs important?
- What are some threats to coral?
- What can be done to protect coral reefs?

Key Learning

Students will develop a deeper understanding of the threats to coral reefs.

(2) Curriculum

Science - Year 4

Living things have life cycles.

Living things depend on each other and the environment to survive.

Science knowledge helps people to understand the effect of their actions.

Science - Year 5

Living things have structural features and adaptations that help them to survive in their environment.

Scientific knowledge is used to solve problems and inform personal and community decisions.

Science - Year 6

The growth and survival of living things are affected by physical conditions of their environment.

Science - Year 7

Interactions between organisms, including the effects of human activities can be represented by food chains and food webs.





KWLH

Hold a class discussion after watching the BTN *Reef Bleaching* story. What questions were raised in the discussion (what are the gaps in their knowledge)? The following KWLH organiser provides students with a framework to explore their knowledge on this topic and consider what they would like to know and learn.

What do I <u>k</u> now?	What do I <u>w</u> ant to know?	What have I <u>l</u> earnt?	<u>H</u> ow will I find out?

Research questions for inquiry

Students will determine a focus for their inquiry and develop a key question to guide their inquiry (below are some examples). Students will collect and record information from a wide variety of sources (internet, books, newspaper and magazines). Students will respond to one or more of the following questions/topics.

- What is coral bleaching? What impact is it having on the Great Barrier Reef?
- What are some of the main threats to the survival of coral reefs? What are some natural threats to coral reefs? What is the human impact on coral reefs?
- Why are coral reefs important? Think of creative ways to raise awareness about the issues raised in the BTN Reef Bleaching story.
- What might happen if we don't look after coral reefs? What would the coral reefs look like in 30 years' time? Make some predictions.

Activity

Haiku poetry

Write a haiku poem focusing on one or more of the themes explored in the BTN *Reef Bleaching* story. Use *Read Write Think's* Haiku Starter graphic organiser which allows students to brainstorm a list of words about their chosen theme. Students will use the poems they have created to teach other students at their school about coral bleaching.

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• • • • • • • • • • • • • • • • • • • •	Hai	ku Starter	
can be about any	topic. Haikus have a	ically, haikus are written about very specific syllable structure	. The first line
of every haiku has syllables.	5 syllables, the secon	nd line has 7 syllables, and the	last line has 5
Use the space belo	ow to brainstorm, pla	n, and write your own haiku.	
Choose Your Topic	::		
Brainstorm Words			
Brainstorm a list of		oic. Next to each word, write the	ne number of
Brainstorm a list of syllables in the circ		oic. Next to each word, write th	ne number of
		oic. Next to each word, write the	ne number or
		DIC. Next to each word, write the	ne number of
		Dic. Next to each word, write the	ne number of
		Dic. Next to each word, wrife the	ne number of
		ic. Next to each world, wrife the	ne number of
		C. Next to each world, write the	ne number or
		ic. Next to eoch word, write the	te number of
		ic. Next to each word, write the	ne number of

	Haiku Starter (Continued)
• • • • • • • • •	•••••
Write Your D	raff
below. You d	u have brainstormed some words about your topic, you can draft your halku do not have to use only the words from your brainstormed list, but each line form either 5 or 7 syllables. Be creative!
Title:	
Line 1 (5 syllo	pibles)
Line 2 (7 syllo	ables)
Line 3 (5 syllo	ables)

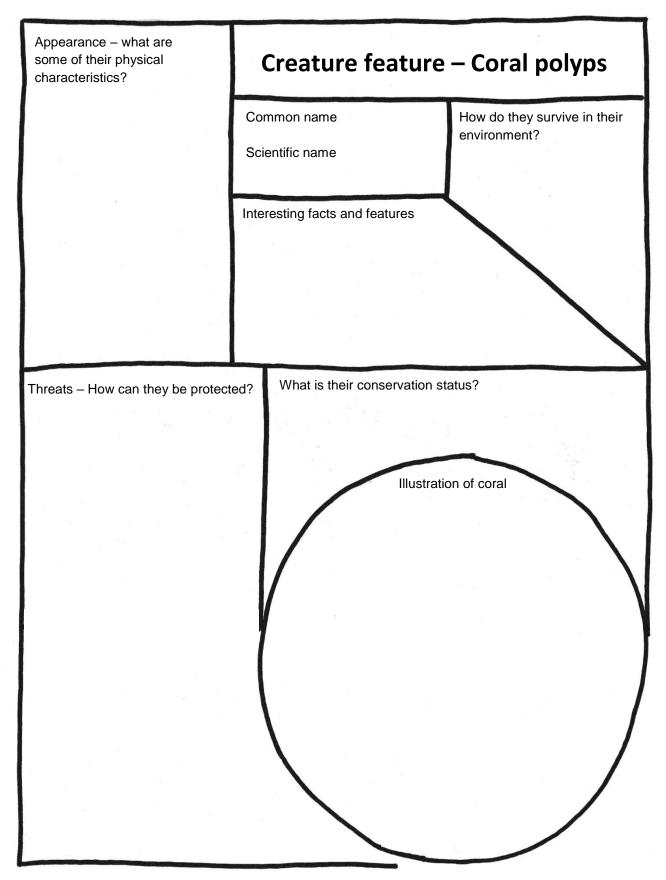
Source: Read Write Think





Creature feature – Coral

Students will imagine they are an ecologist and study the world of coral. Students will create a creature feature about coral polyps and use the following template to record the information they find.





Coral Spawning - BTN

https://www.abc.net.au/btn/classroom/coral-spawning/10522092

Coral Bleaching - BTN

https://www.abc.net.au/btn/classroom/coral-bleaching/10524996

Corals - GBRMPA

http://www.gbrmpa.gov.au/the-reef/corals

Great Barrier Reef Problems - BTN

https://www.abc.net.au/btn/classroom/great-barrier-reef-problems/10488602

Coral Reefs - National Geographic

https://www.nationalgeographic.com/animals/invertebrates/group/corals/