



Australian Government

Great Barrier Reef
Marine Park Authority



Reefs at risk

Virtual Learning Experiences

Program overview:

The Great Barrier Reef is internationally recognised for its outstanding beauty and biological diversity, which is reflected in its status as a World Heritage Area. However, the Reef and its inhabitants are under threat from a number of human impacts. The main threats to the Reef are:

- Climate change
- Coastal development
- Land-use run-off (including marine debris)
- Direct use (e.g., illegal fishing and poaching)

Learn how each of these threats affect the Reef and the animals and plants that call it home. Find out what Reef Managers are doing to reduce impacts and keep the Reef healthy and resilient. Discover how you can help protect the Reef, no matter where you live.

Please note: this program can be tailored to suit students' learning needs and curriculum requirements.

Program duration: 60 minutes

Program cost: AUD \$155.00 (Inc. GST)

Australian Curriculum Links:

Year	Subject	Code
6	Science	ACSSU094
9	Science	ACSSU176
10	Science	ACSSU189
10	Geography	ACHGK070
Senior	Earth and Environmental Science	ACSES105 ACSES106
Senior	Biology	ACSBL028

Cross-curricular priorities:



Sustainability



Aboriginal and
Torres Strait Islander
Histories and Cultures





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Reefs at risk program outline:

Runtime: 60 minutes *Timings are indicative only.

	Time Allocation (minutes)	Outline	Teacher Notes
Pre-presentation Set Up	5 minutes prior to session start time	Audio Visual Check	Camera – teacher to set up the camera so presenters can see students. Microphone – check that microphone is connected and working. If one class is connecting , leave the microphone unmuted so that presenter can ask questions throughout the session. If multiple classes are connecting , please mute your microphones and host will advise teacher to unmute during question time.
Welcome and Introduction	0-3min (3 min)	Meet the Reef Education host Acknowledgement of Country Explain format of the session	Acknowledgement of Country – if known teacher/student could acknowledge the First Nation people’s country where they are situated.
Overview of the Great Barrier Reef	3-13min (10 min)	Geography: location, size. Biological and ecosystem diversity. Multiple uses of the Great Barrier Reef Marine Park. Aboriginal and Torres Strait Islander cultural connections.	Teacher to help facilitate questions throughout the session by picking a student with their hand raised to answer and by unmuting and muting microphone if required.
Threats to the Reef	13-43min (30 min)	Host to ask students if they know of any threats to the Reef? Introduction to the top four threats to the Reef: <ul style="list-style-type: none"> • Climate change • Coastal development • Land use run-off (including marine debris) • Direct use (illegal fishing and poaching) 	Teacher to help facilitate questions picking a student with their hand raised to answer and by unmuting and muting microphone if required.
Keeping the Reef healthy and resilient	43-53min (10 min)	Overview of the actions that are being taken by Reef Managers, and others to help increase Reef health and resilience.	





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SEE THE
LOVE THE
PROTECT THE
REEF

How can we all help the Reef?	53-58min (5 min)	Discussion about the actions we can all take to help the Reef.	Teacher to help facilitate questions picking a student with their hand raised to answer and by unmuting and muting microphone if required.
Final messages	58-60min (2 min)	The presenter will close with a summary.	

Links to further information and extension activities:

Teaching resources

- [Science Teaching Unit: Exploring the Reef – Year 3](#)
- [Science Teaching Unit: Let's go fishing – Year 6](#)
- [Science Teaching Unit: Wetlands – Year 7](#)
- [Science Teaching Unit: Coral bleaching – Year 8](#)
- [Science Teaching Unit: Ecosystems Year 9](#)
- [Science Teaching Unit: Climate change – Year 10](#)
- [Reef Beat 2020: Junior Outlook](#)
- [Reef Beat 2016: Threats to the Great Barrier Reef](#)
- [Reef Beat 2009: Climate change and the Reef](#)

Videos

- [Reef Beat 2016 - Climate change video](#)
- [Reef Beat 2016 - Coastal development video](#)
- [Reef Beat 2016 - Impact of fishing video](#)
- [Reef Beat 2016 - Land-based run-off video](#)
- [Reef Beat 2016 - Marine debris video](#)

Useful additional information (website links)

- [Outlook Report 2019](#)
- [Outlook Report Fact Sheets](#)
- [Threats to the Reef](#)
- [GBRMPA - Reef snapshot.](#)
- [Marine debris](#)

To explore other Reef related teaching and learning resources check out our [Reefed resources page](#).

