



CARING
FOR
OUR
COUNTRY

Classroom Activity - Derwent Rocky Reef Real Estate

Extension Activity 2- Reef Restoration Action and Solutions

(Gr 5 - 10)

Overview: Students will consider major impacts to reefs and the intertidal zone and think about how it affects their own species, to contribute to their reef real estate pamphlet. As a starting point complete the previous **'Extension Activity 1 -Impacts to Rocky Reef Real Estate in the Derwent'**, to introduce the wide range of impacts and which habitats and animal types are impacted. This extension activity focuses on species specific impacts, and how we identify recovery actions and implement management to see changes in the environment

TASK: Students are required to think about how major types of impact specifically affect their own species. This involves thinking about flow on affects from major impacts such as loss of habitat, overfishing, boating, or pollution. Which of these impacts affect the juvenile and/or adult stages, and how (impact either feeding or breeding). Also identify if they are direct impacts (e.g., mortality, injury, disturbance), or indirect impacts (e.g., population decline from poor breeding due to loss of habitat). Add this information to the last page of the pamphlet, and make some future predictions about their species survival with a growing world population and a warming climate.

Ask them to identify:

- the major pressures and how they stress their species (direct or indirect impact)?
- the best approach for relieving each impact to see recovery in their species?
- what is required for recovery of the broader reef/inter-tidal environment?

Students may need to conduct a further web search to identify specific threats and stresses to the survival of their species.

Students can broaden their research to involve the community.

Perhaps:

- identify the role the community can play in the recovery of their species, or their key habitat.
- contact biologists and agencies in south east Australia who are responsible for researching and managing their species to find out the causes to any declines, and the conservation steps currently being planned or implemented.
- research these fishes to see if any of them are in decline because of overfishing.
- contact local restaurants and grocery stores to see what types of fishes they sell.

- consider the results they come up with and then write a letter to the grocery store or restaurant expressing their opinions about the fishes they market.

Cattle Yards

**Agricultural
Pesticide Use**

Gill Netting

Oil spill

Introduced Sea Urchin

**Fish Collection
(for private
aquaria)**

Boat
Anchoring

Ghost Net

**Deforestation
(erosion)**

**Increased
current strength
(warming water)**

Ocean Acidification

**Increased
Rainfall**

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