

OCEANS OF WASTE

STAGE 2: TEACHER RESOURCE

THE EARTH'S ENVIRONMENT

KEY INQUIRY QUESTIONS

- How does the Sydney Harbour Environment support the lives of people and other living things?
- How do different views about the Sydney Harbour environment influence approaches to sustainability?
- What can we do to help living things in the Sydney Harbour environment?



OUTCOMES

Knowledge and Understanding:

- **GE2-1** examines features and characteristics of places and environments
- **GE2-2** describes the ways people, places and environments interact
- **GE2-3** examines differing perceptions about the management of places and environments
- **GE2-4** acquires and communicates geographical information using geographical tools for inquiry

Skills:

- Develop geographical questions to investigate
- Collect and record relevant geographical data and information
- Represent data by constructing tables and maps
- Interpret geographical data to identify patterns and draw conclusions

AT SCHOOL – PRE EXCURSION ACTIVITIES

Students to view the case study '*Andrew's Story*' a Green Sea Turtle who survived significant injuries and was released back into Sydney Harbour to continue his epic journey around the Pacific Ocean.

<https://www.youtube.com/watch?v=JTKI5iY6Qbs>

- Record observations in the student field journal of the human and natural features Andrew encounters in his journey through Sydney harbour and nearby beaches .
- Take a look at a Google satellite MYMap of Athol Beach and continue these observations.
https://drive.google.com/open?id=1C5fUvat46_5Xy5akXT0Nb_hXKNyo&usp=sharing
- Record questions for the Taronga experts to clarify how students can help living things in marine coastal environments.

AT THE ZOO

Students will enjoy:

- Workshops delivered by Taronga conservation experts on the Sydney Harbour ecosystem, threats that wildlife face within it, and what we can all do combat the critical environmental catastrophe of marine pollution.
- Visiting Athol Beach below the Zoo to conduct a beach clean, collect primary data on marine debris, and analyse their findings.

BACK AT SCHOOL – POST EXCURSION ACTIVITY

Students are encouraged to choose a school goal and design a plan to reduce the amount of single use plastic entering your local water ways, to help the living things in Sydney Harbour.



RESOURCES

Sydney Harbour – 3000 species and counting! – Australian Museum
<https://australianmuseum.net.au/blogpost/science/sydney-harbour-species>

The Survival of the Sea Turtle
<https://www.youtube.com/watch?v=t-KmQ6pGxg4>

Take 3
www.take3.org

Taronga Science: Conservation in Action
<https://taronga.org.au/conservation-and-science/current-research/satellite-tracking-of-sea-turtles>

A Plastic Ocean
[A Plastic Ocean on iTunes](https://itunes.apple.com/au/movie/a-plastic-ocean/id1184318095)
<https://itunes.apple.com/au/movie/a-plastic-ocean/id1184318095>

[A Plastic Ocean | Netflix](https://www.netflix.com/title/80164032)
<https://www.netflix.com/title/80164032>

SUEZ - School Recycling and Waste Audit Booklet
https://www.suez.com.au/-/media/suez-au/files/publication-docs/products-and-services/suez_au_school_waste_and_recycling_audit.pdf

Kimbriki Eco House and Garden
<http://www.ecohouseandgarden.com.au/content/resources>

Marine Debris Education Kit
<https://www.tangaroablue.org/resources/education-kit-and-fact-sheets/marine-debris-education-kit/>