

# OCEANS OF WASTE

## Stage 5: Teacher Resource Environmental Change and Management



### Key Inquiry Questions

- How do people's worldviews affect their attitudes to and use of environments?
- How does the natural and built environment of Sydney Harbour support biodiversity?
- What are the causes and consequences of the change in Ocean waste in the Sydney Harbour area and how can this be managed?



### OUTCOMES

#### Knowledge and Understanding:

- GE5-3 analyses the effect of interactions and connections between people, places and environments
- GE5-4 accounts for perspectives of people and organisations on a range of geographical issues
- GE5-7 acquires and processes geographical information by selecting and using appropriate and relevant tools for inquiry
- GE5-8 communicates geographical information to a range of audiences using a variety of strategies

*Students need to bring pen, paper and a device to take photos of environments and collected waste data.*

### 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 Harbor to continue his epic journey around the Pacific Ocean. <https://www.youtube.com/watch?v=JTKI5iY6Qbs>
- Consider the worldview of the Taronga veterinary staff who cared for Andrew. Prepare questions to explore how this impacts how they interact with marine environments.
- Open the Google satellite MyMap of Athol Beach link below [https://www.google.com/maps/d/edit?hl=en&mid=1n8B4eCg\\_seK54w0zd2ym9IvQCG2UJyi\\_&ll=-33.84639950066481%2C151.24391946745902&z=17](https://www.google.com/maps/d/edit?hl=en&mid=1n8B4eCg_seK54w0zd2ym9IvQCG2UJyi_&ll=-33.84639950066481%2C151.24391946745902&z=17)
- Ask students to draw a sketch map of the area and label the natural and built features observed.

### At the Zoo

Students will enjoy:

- Workshops delivered by working scientists, veterinary staff and zoo educators about Sydney Harbour, Indigenous perspectives, the changes that have taken place and the consequences of this change.
- Collecting and analysing data on marine waste with TAKE 3.

### Back at school – post excursion activity

- Students are encouraged to propose ways individuals and the school community can contribute to environmental sustainability in Sydney Harbor.

# RESOURCES

Sydney Harbour 3000 Species and Counting!

<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](http://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>

School Recycling and Waste Audit Booklet

<https://www.suez.com.au/en-au/our-offering/businesses/how-can-we-help-you/waste-management/total-waste-management-solutions/waste-assessments-and-audits>

Waste and Recycling

<http://www.environment.nsw.gov.au/households/waste-recycling.htm>

Kimbriki Eco House and Garden

<http://www.ecohouseandgarden.com.au/content/resources>

The Last Straw

<https://www.laststraw.com.au/>

Taronga Blue

<https://www.tangaroablue.org/>

Sydney Submerged, Australian Geographic 28.06.2018

By Justin Gilligan