

Teacher's Resource Pack

Stage 4 &
Stage 5

Geography



Book your excursion today!
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(02) 8251 7801

SYDNEY
SEA LIFE
AQUARIUM



Welcome to SEA LIFE Sydney Aquarium's Geography Student Resources



Teacher Notes

A trip to SEA LIFE Sydney Aquarium complements integrated learning across a multitude of subject areas, including Geography. The following Teachers Resource contains worksheets to aid the teaching of geography when you visit SEA LIFE Sydney Aquarium.

The worksheets within this resource, can be completed by students when they visit SEA LIFE Sydney Aquarium. Within this resource is also Pre and Post learning tasks for completion at school.

Geographical Tools

Stage 4

- Maps and atlas
- Photographs- Draw a line drawing
- Photographs- Collect and interpret photographs

Stage 5

- Photographs-Collect and use digital images

Stage 4 – Global Geography – Mandatory

Focus Area 4G1 – Investigating the world The nature of geography

- Classify features of the environment as physical or human elements.
- Record patterns of physical and human elements in the environment.
- Identify patterns resulting from the interactions of the physical and human environment.

Our world

- Describe global patterns of physical and human features.

Geographical research

- Apply key geographical questions to a local environment.

World heritage sights

- Identify and locate natural and cultural World Heritage sights..

Focus Area 4G2 – Global Environments Global Environments

- Locate different global environments
- Recognise the spatial distribution of global environments.
- Draw and describe the operation of simple ecosystems.
- Describe interactions of humans within the environment.
- Describe the inter-relationship of the environment in a specific community.
- Explain how individuals, community organisations and government actions are contributing to the current management of the environment.
- Identify the responsibility of government to the community and its

environment.

- Describe current use of the environment and suggest strategies for future ecological sustainability.

Focus Area 4G3 – Global Change

- Identify global patterns of resource use.
- Explain the link between resource use and sustainability.

Focus Area 4G4 – Global Issues and the Role in Citizenship

- Explain the links between human actions and the consequences for ecological sustainability on a global scale.

Stage 5 – Australian Geography – Mandatory

Focus Area 5A1 – Investigating Australia's Physical Environments

- Explain the interrelationships that exist in the physical environment in Australia.
- Explain adaptations of flora and fauna to the Australia Environment.

Focus Area 5A3 – Issues in Australian Environments

- Outline how a range of geographical issues are affecting Australian environments.
- Explain the interaction of the physical and human elements of the environment.

Stage 4/5 – Elective Geography

Focus Area E2 – Oceanography

- Complete topic
- The features of the world's oceans
- The importance of the world's oceans
- Ownership and control
- Issues relating to the world's oceans.

Focus Area E3 – Geography of Primary Production

- Identify different types of primary production
- Locate different types of primary production at a global scale
- Describe the global patterns of primary production

Suggestions for Pre/Post activities

Pre-Activities:

- Look at the marine and aquatic ecosystems.
- Look at threats to the marine and freshwater ecosystems.
- Look at the different oceans of the world and their geographical location, facts and information about them.
- Research shark-finning and the impacts this has on shark numbers and populations.
- Explore oceanographic research techniques and equipment, to ensure the collection and collation of accurate and worthwhile data.

Post-Activities:

- Look at different fishing methods and how they impact the marine and freshwater ecosystems.
- Compare and contrast farmed fishing methods and "wild caught" fishing practices.
- Research different conservation practices throughout Australia and world-wide.
- Look at aquatic sustainability programs and how this can be implemented to ensure future numbers of organisms.
- Visit the SEA LIFE Conservation Fund website, to find out the many ways you and your students can contribute to protecting our ocean creatures. <http://www.slcf.org.au/>



Stage 4 Geography

Lots of the animals that you see at SEA LIFE Sydney Aquarium are native to Australia. Find one native animal to Australia, or even better, native to the Sydney Area.

In the box below, draw a map of where the animal is found and the usual distribution for this species.



What is the name of the animal you have chosen?

Name another animal that has a similar distribution?

Name 5 different environments/habitats as you walk around SEA LIFE Sydney Aquarium:

1.

2.

3.

4.

5.

Stage 5 Geography

A World Heritage Site is a site inscribed by the World Heritage Committee of the United Nations, which is a place that is of special cultural or physical importance. It can be places such as a forest, mountain, lake, desert, monument, building, complex or city. In Australia, there are 19 World Heritage Sites. The Great Barrier Reef is one of these.

Why is it a World Heritage Site?

Look for the Great Barrier Reef exhibit at SEA LIFE Sydney Aquarium. Find out, what is a reef?

What are some facts about the Great Barrier Reef?

What problems are facing the Great Barrier Reef? How can we help to conserve it for future generations?
