

Secrets of the Sea Display

Worksheet for students – teachers copy with answers

Teachers / support staff walk through the display with students (preferably in groups of 2 or 3) and help them work through the following questions at each of the sections.

HABITAT: What is a habitat? A habitat is a home for animals and plants.

Q. Look at the pictures and posters of the different types of sea/marine and coastal habitats we have in South Australia? List two habitats for each area.

A. Sea/Marine (*rocky reef, sandy bottom, seagrass beds, islands and open waters*). Coastal (*sandy beaches, rocky shores, mangroves and saltmarsh*)

Q. Have a look at the **Rockpool Life** poster. Identify anything in the poster that you have seen in rockpools on the Eyre Peninsula. List two.

1.

2.

PLANTS AND ALGAE

Q. How many species of Seagrass do we have in South Australia?

A. 12

Q. How many species of Algae do we have in South Australia?

A. 1500

Q. Have a look at the **Bead Samphire** (*Halosarcia flabelliformis*) picture. Have you seen a plant that looks like this before? And if so where?

The *Samphires of the Eyre Peninsula* booklet will tell you where they are found.

A. *Saltmarshes are found along low energy coasts, inland salt lakes and saline scalds*

BIRDS

Q. How many Shorebird species visit or live on EP?

A. 47

Q. Some of the Shore birds that live on EP, like Hooded Plovers are threatened. Which means there is not many of them left. List 4 things we can do to help protect them?

A. *In breeding/nesting season, Do not drive on beaches, keep dogs away from the beach or on leads, walk below the high tide mark, move away quietly if you see birds or eggs.*

REPTILES

Q. Have you seen a Reptile that lives in the sea? Where have you seen it?

Have you seen them on the Eyre Peninsula?

- A. *Sea Turtles. They live in tropical waters but follow the Leeuwin current down from Western Australia and are occasionally found in South Australia. Recently one was sighted in Coffin Bay.*
- B. *Snakes such as brown snakes and tiger snakes swim in the ocean to travel between islands and headlands.*

FISH / SHARKS

Q. How many species of fish are found in Southern Australia?

A. 610

Q. Find some eggs on the fish table. Draw two of these below and use the *Beachcomber guide* to identify who the eggs belong to.

A. *Port Jackson shark and Cat shark*

Q. Have a look at the Shark poster. List 4 shark species that live in the sea around Eyre Peninsula? Do you think a shark is a type of fish?

A. *Great White, Port Jackson, Wobbegong, Bronze Whaler, Gummy, Blue, Sevengill, Mako, Cat and many ray species (related to sharks) such as Smooth Rays, Eagle Rays, Fiddler Rays etc.*

A. *Sharks and rays are a type of fish called a cartilaginous fish. Their bones are made of cartilage, unlike other fish that have bones like us.*

INVERTEBRATES

Q. What is an invertebrate?

A. *An animal without a backbone.*

Q. Is a sea sponge a plant or animal.

A. *An animal*

Q. Draw your favourite invertebrate from the display. Why is it your favourite?

MAMMALS

Whales either have teeth (toothed whales) or baleen to feed.

Q. Look (but don't touch) at the baleen on the mammal table. How do you think the baleen works?

A. *Filters, sifts, sieves or traps the whales favourite food from seawater inside their mouths.*

YAMARA WARDANA – Embrace the Sea

Q. The Traditional Owners of Port Lincoln and the East Coast of Eyre Peninsula are the Barngarla people. They have lived here for thousands of years and have their own language that's different to English.

There are Barngarla words as well as English words for the things that live in and near the sea. Can you list the Barngarla name for 5 creatures that live in or near the sea? Practice saying these words.

A.

Galnoonoo / Whiting	Gadabi / Dolphin
Gooya / Fish	Ninggi / Seal
Yawoo - Seagull	Bidnoo / Fiddler
Gama - Stingray	Winnari / Seaweed
Marrgala / Shell	Goongqooloo / Crayfish
Wolqara / Shark	Wada / Whale

MARINE PARKS protect all the different sea and coastal habitats and plants and animals that live in them. Lots of them you have seen in this display.

Q. How many marine parks do we have in South Australia?

A. 19

Q. Talk through all the different levels of protection marine parks with a teacher or read the information. How do **Sanctuary zones** work in Marine Parks?

A. *Sanctuary Zones are like National Parks but on the water. They are core conservation areas in Marine Parks. They are 'no take' zones meaning you can't take or harm any plants or animals in them. This protects the feeding, breeding, nursery and resting areas for all the species in them and lets the ecosystem recover to a more natural state.*

Q. Have you visited a Marine Park? If so, which one?

MARINE DISCOVERY TABLE

Q. Carefully look through the microscope at the petri dish of sand. Ask for help if you need it. What is sand made out of?

A. *Broken up rocks and shells.*

Q. Carefully use the eyeclops (green handheld microscope) to look inside a sea sponge and look at it on the TV. What do you think the holes in the sea sponge are for?

A. *Filter water and food.*

EXTRA ACTIVITY

Q. Watch the underwater video of South Australia on the VR goggles at the library front desk and name 3 sea creatures that you see in the video? (e.g. fish, invertebrate, mammal)

A. *Giant Australian Cuttlefish, Leafy Seadragon, Australian Sealion, jellyfish, Port Jackson Shark, reef fish.*

More information

Thank you for visiting the display – I hope it's been a fun and educational experience.

Contact Marine Coordinator, Dr Shelley Paull if you have questions about the display or the worksheet.

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For more information or extension activities please visit the following websites.

National Parks and Wildlife Service – <https://www.parks.sa.gov.au/Home>

The Rockpool – SA's Marine and Coastal Hub - <http://therockpool.org.au/>

The Great Southern Reef – www.greatsouthernreef.com

NRM – Coastal and Marine Environments -
<https://www.naturalresources.sa.gov.au/adelaidemtloftyranges/education/for-educators/plants-and-animals/coastal-marine-environments>

Natural Resources Eyre Peninsula -
<https://www.naturalresources.sa.gov.au/eyrepeninsula/home>

South Australian Marine Parks – www.marineparks.sa.gov.au

Parks Australia – Commonwealth Marine Parks -
<https://parksaustralia.gov.au/marine/parks/>