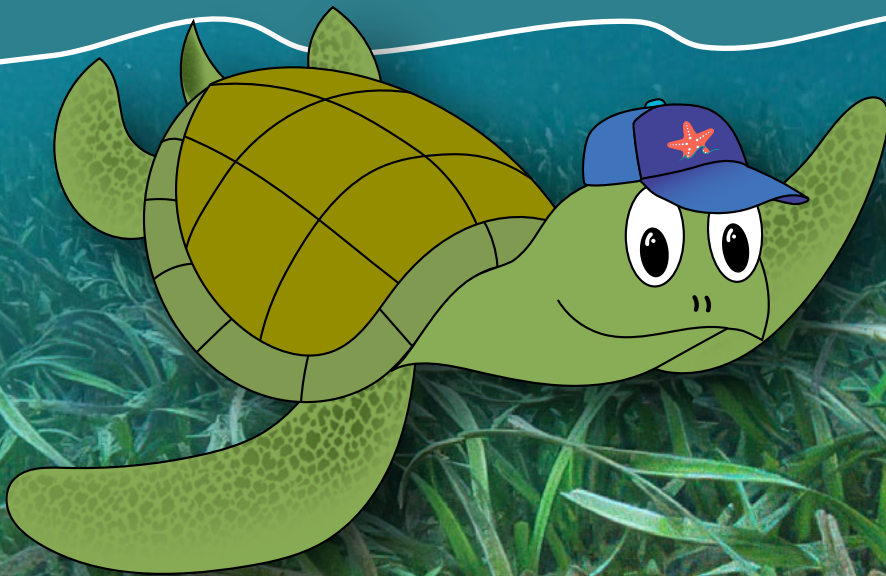
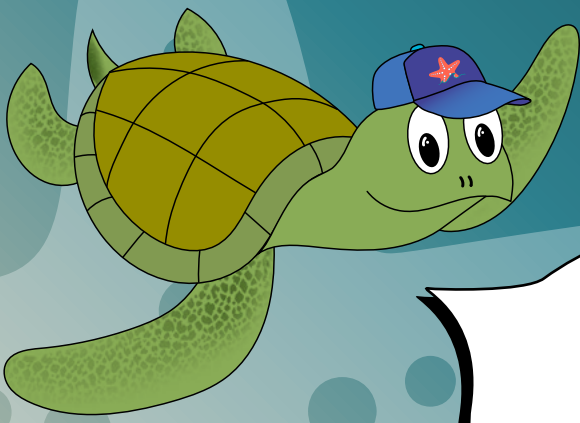




MARINE ESTATE AGENTS ACTIVITY BOOK 3



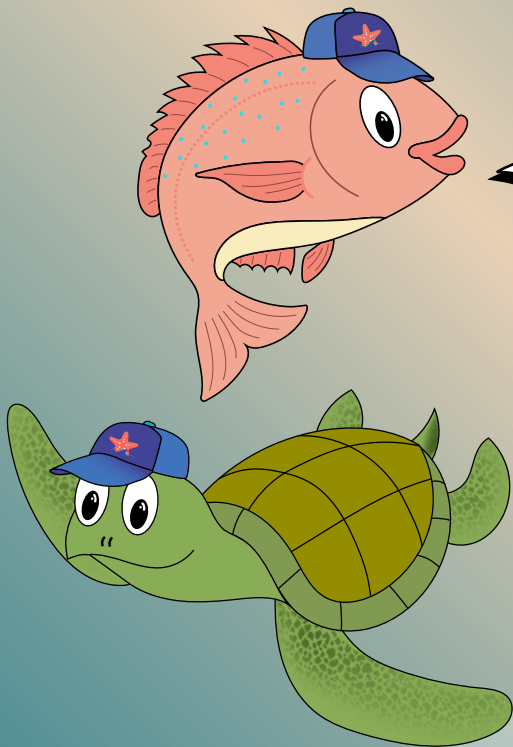


Hi, I'm Finn the
Green Sea Turtle.
I'm a Marine Estate Agent.

Hi, I'm Pinky the Snapper.
I'm a Marine Estate Agent.



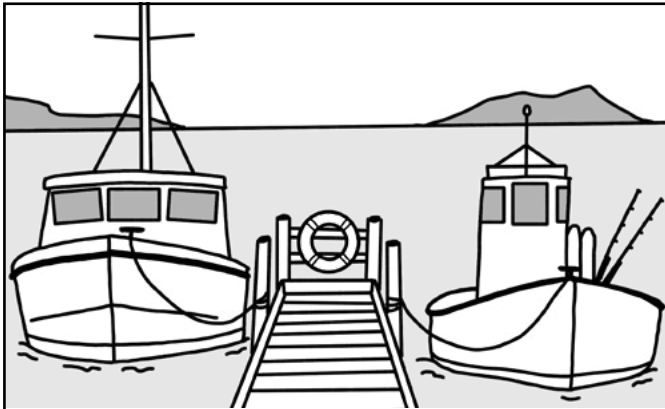
Together, we're going
to help you join us as a
Marine Estate Agent.
Complete the activities
and you're on your way
to Agent status!



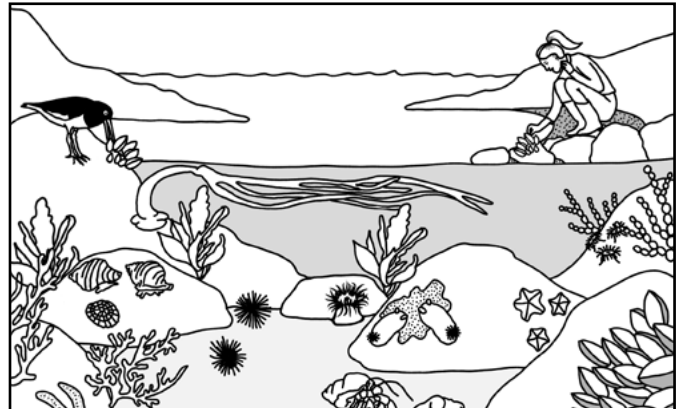
IMPORTANCE OF THE MARINE ESTATE

Below are four different areas that can be found in the marine estate. Under each image record your answer to the following questions:

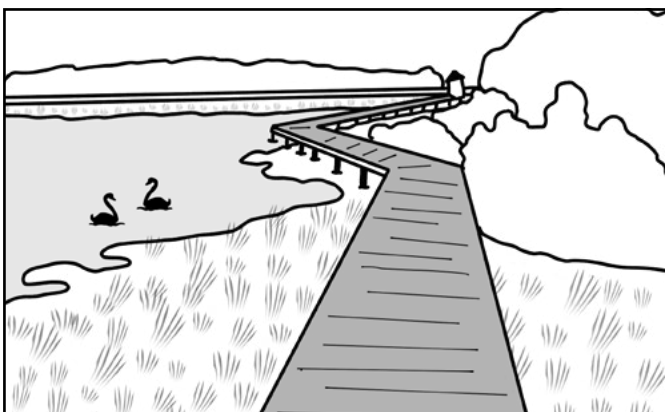
- Why is this area important for the environment?
- Why is this area important for people?



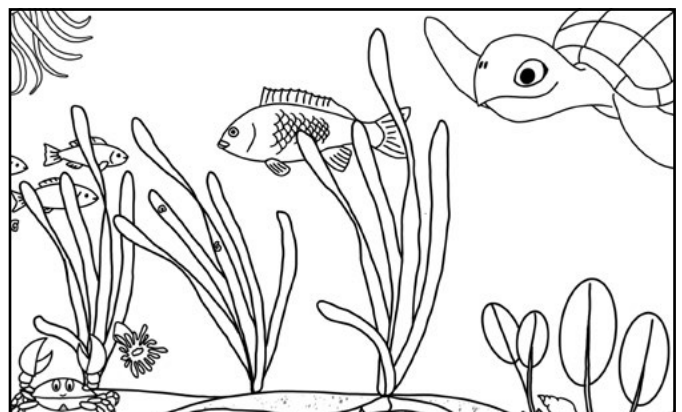
Boat harbours



Rocky shores



Saltmarshes



Seagrass beds

YOUR ACTIONS COUNT!

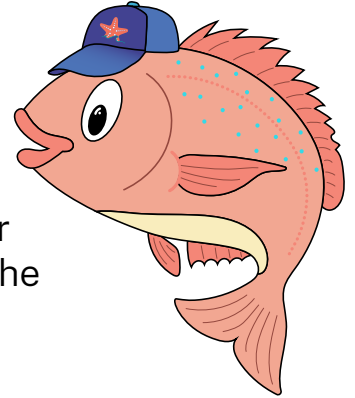
Below is a list of impacts that can cause damage or harm the coastal environment. You need to identify the actions that you can do to help reduce these impacts. Some actions can be used more than once.

Impacts	Actions
1. Driving through sensitive ecosystems.	1.
2. Overfishing.	2.
3. Taking home breeding stock.	3.
4. Leaving fishing and other waste behind.	4.
5. Not cleaning up your dog's poo.	5.
6. Clearing trees to get better views.	6.
7. Driving water vessels too fast in sensitive areas.	7.
8. Chasing marine creatures, such as dolphins and sea turtles, with motorised water vessels.	8.
9. Fishing in restricted zones.	9.
10. Removing shells and rocks.	10.

THE IMPACTS OF BUSHFIRES

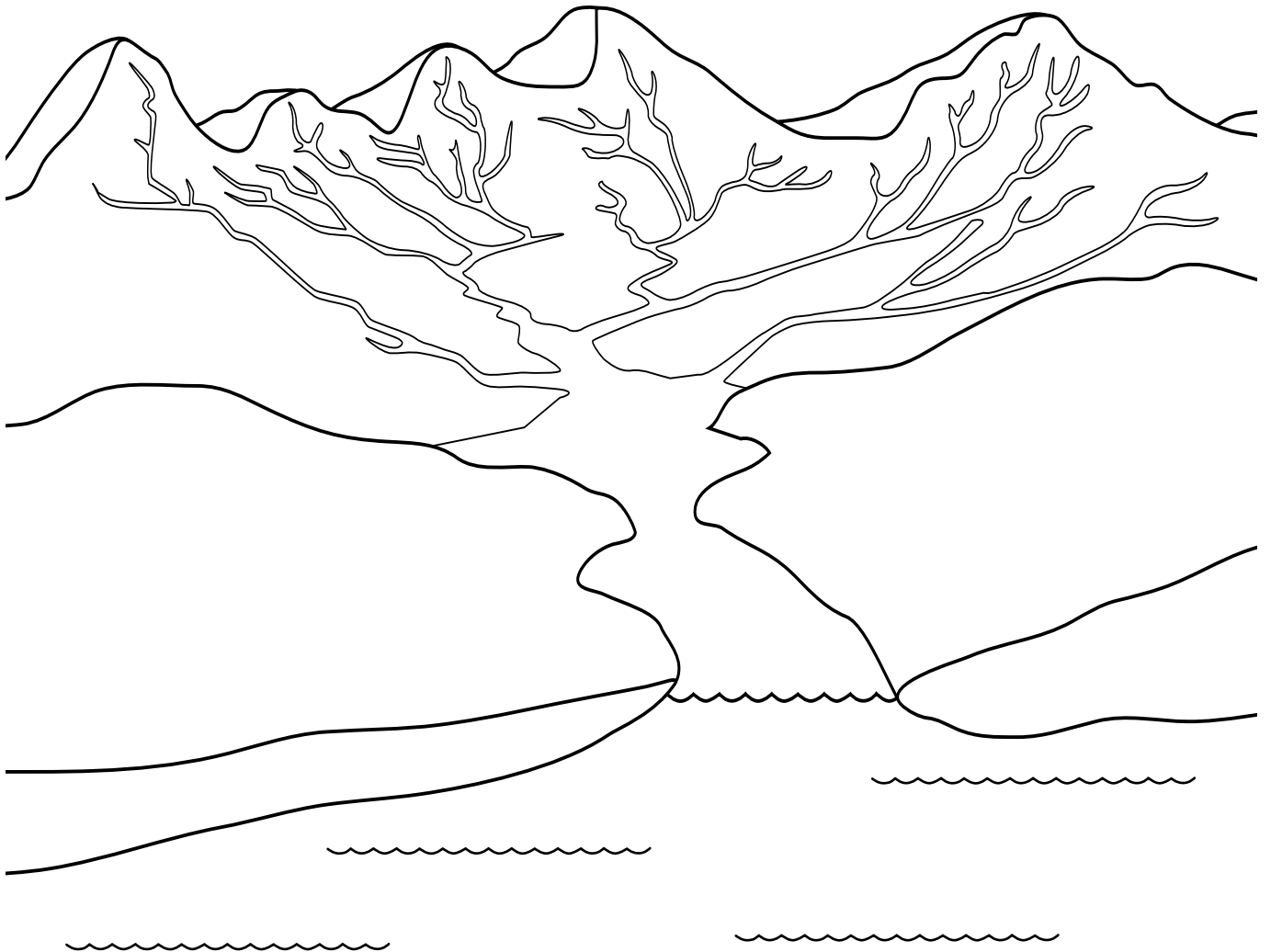
Bushfires not only harm everything in the path of the fire, but also impact aquatic ecosystems far away from the initial destruction.

The devastation that happens on the land can wash into our rivers and oceans and make our fish, like Pinky, very sick. The massive smoke plumes can also be toxic to marine life.



In this catchment diagram, you need to:

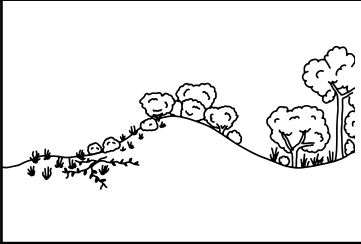
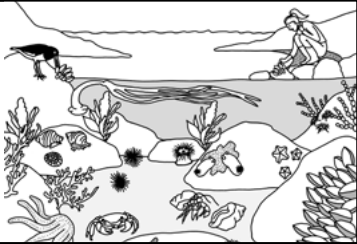
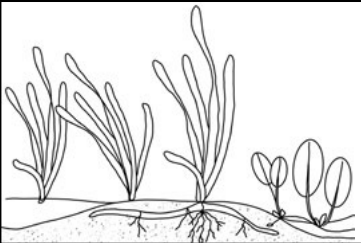
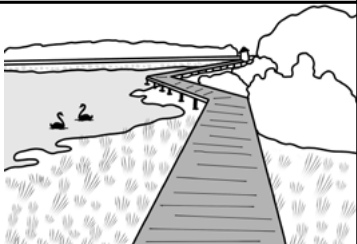
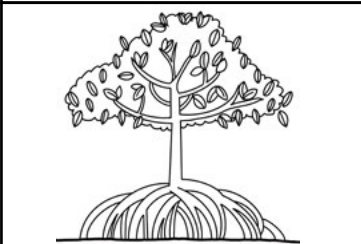

1. Draw in an area that has been burnt by a bushfire.
2. Identify areas that may be impacted by that fire. What are those impacts?



KNOW YOUR ECOSYSTEMS

An ecosystem is a collection of living things interacting with each other and with their non-living environment. There are many different ecosystems that can be found in the marine estate.

Record different features that can be found in the following ecosystems.

	Coastal Dunes
	Rocky Shore 
	Seagrass Meadows
	Saltmarsh 
	Mangroves
	Open Ocean 

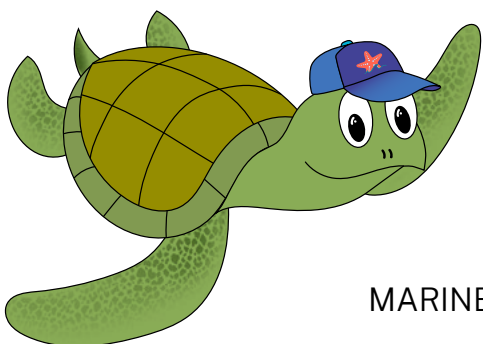
TURTLE TALES

Read along with Finn to learn more about sea turtles.

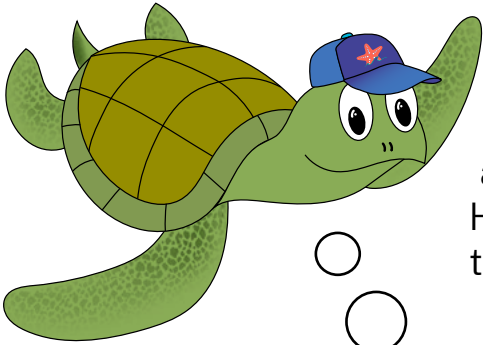
The Adventures of Timmy Turtle has lots of good pop-up facts about sea turtles to explore bit.ly/adv-timmy

Answer the following questions.

1. How old are sea turtles when they start laying eggs?
2. When they hatch, what are a baby turtle's natural instincts?
3. What are some of the dangers facing young sea turtles?
4. What do sea turtles like to eat?
5. What is a medical condition that sea turtles can get when they are sick?
6. What should you do if you come across a sick sea turtle?
7. What types of rubbish are most dangerous to sea turtles?
8. How can we help look after sea turtles?

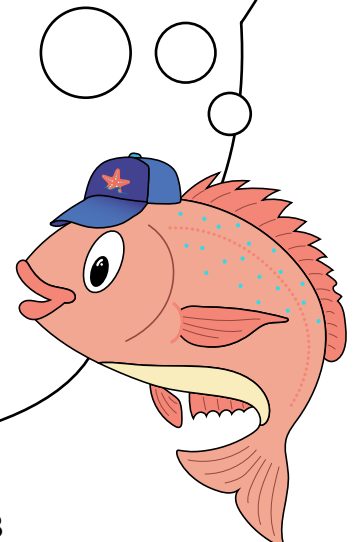


CLIMATE CHANGE ACTIONS

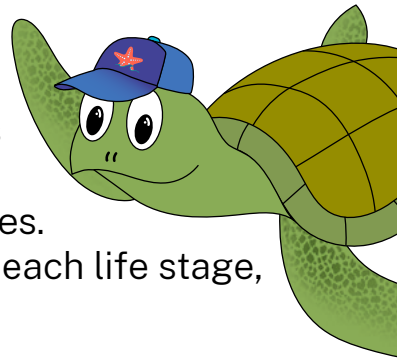


Finn is really worried about the impacts of climate change on his fellow sea turtles. There are many actions we can do to slow the rate of climate change. Help Finn and Pinky brainstorm and record some of these actions.

**Actions
Against
Climate
Change**

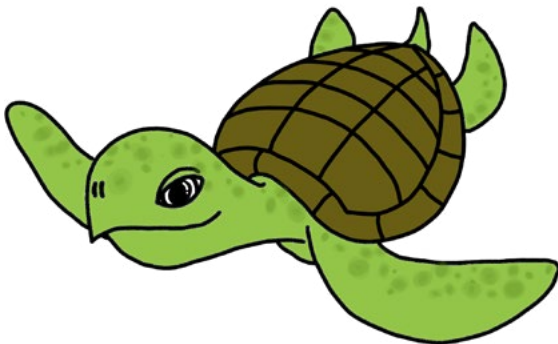


THE LIFE OF A SEA TURTLE



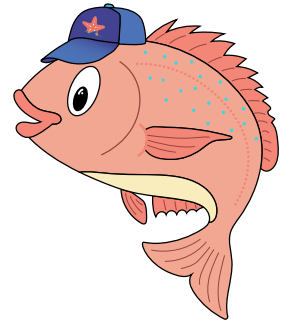
Label this life cycle diagram of a sea turtle. Choose the species you are profiling, either the Loggerhead or Green turtle. Draw in arrows to show the movement through the different life stages. Include any interesting details, such as the time taken to reach each life stage, where the eggs are laid and how they survive each stage.

Species name:



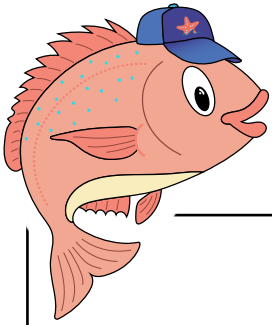
CULTURAL FISHING

What do you think cultural fishing means?

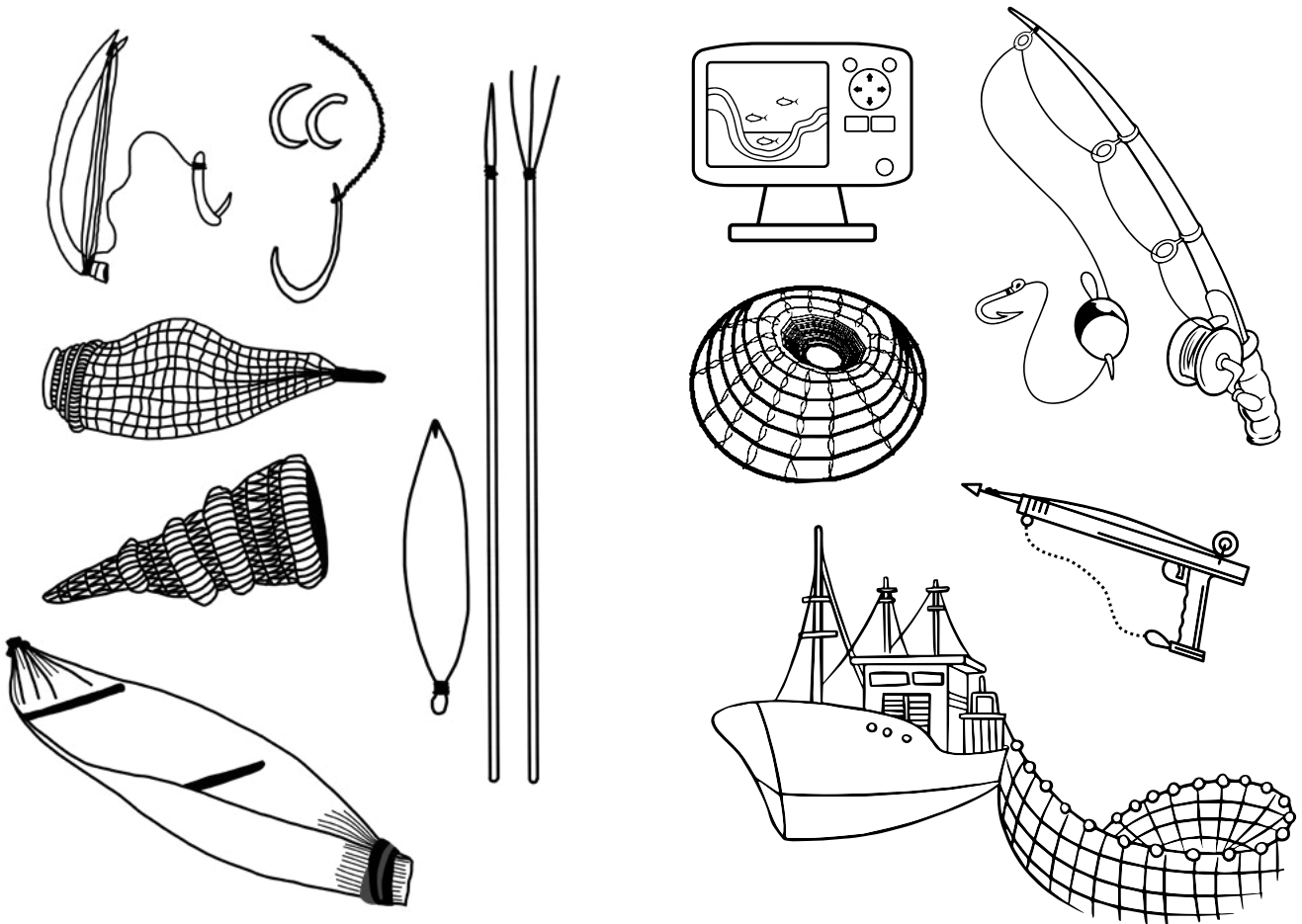


Draw an image that represents what cultural fishing means to you.

FISHING, WHAT'S CHANGED?



What's the difference between the old and new tools used for fishing? Use the images as a guide and record the differences.



Describe how traditional fishing methods and tools can be more sustainable compared to some of our current methods.

A SUSTAINABLE FISH



Pinky's worried that there are lots of greedy fishers out there. She's scared that she might end up on the dinner table before she can lay lots of eggs and make more baby snapper.

Sustainable fishing is one way that Pinky can be sure that she has a chance to grow into an adult. Do you know what a sustainable fish is?

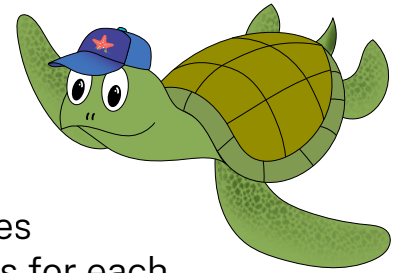
Watch this video youtu.be/6ps0truARKs and answer these questions.

1. Are there endless wild fish in the sea?
2. Define the term bycatch.
3. What fishing methods aren't sustainable?
4. What is a sustainable fish?
5. What fishing methods are sustainable?
6. Explain the importance of these logos and where they can be seen.



SAFE ACTIVITIES IN AN ESTUARY

Who uses estuaries? What activities can you do in estuaries?



It is important to be safe when enjoying or working in estuaries. Marine Estate Agents are aware of safety issues around water. Help Finn by recording some safety actions for each of the below estuary users or activities.

Oyster farm

Kayaking

Swimming

Shore fishing

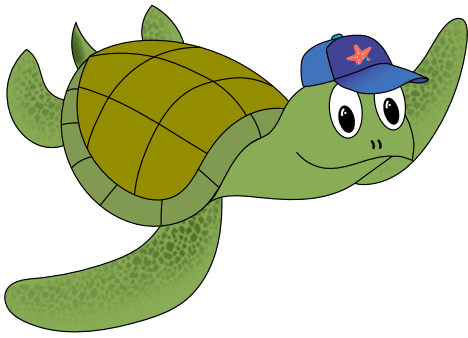
Boat fishing

Jet skiing

Sailing

Diving and snorkelling

KNOW YOUR TERMS



If you know your Marine Estate Agent terms, then you can complete the crossword.

DOWN

1. Any surface where water falls and drains to a common endpoint (9).
2. Making sure there will be enough resources left for future generations (14).
4. A collection of living things interacting with each other and with their non-living environment (9).
5. Land that holds spiritual significance for cultural practices and activities (3, 7).
6. The action of catching fish (7).

ACROSS

3. A cultural term describing food that can be found in the coastal zone (3, 6).
7. Something that is not natural and can be harmful or poisonous to living things (9).
8. In NSW this area includes the ocean, estuaries, coastline, offshore islands and coastal wetlands, lakes and lagoons (6,6).

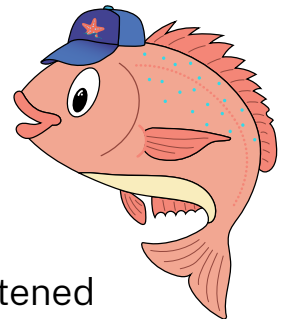
Catchment, Ecosystem, Fishing, Marine Estate, Pollution, Sea Country, Sea tucker, Sustainability

MARINE ESTATE AGENT PLEDGE

As a Marine Estate Agent, I pledge to help the marine estate by doing the following actions:



1. I will tell others what is special about the marine estate and what it means to me.
2. I will take care not to move wildlife or rocks when I visit the beach.
3. I will Take 3 for the Sea every time I visit a natural area.
4. I will do as much as I can to protect the marine estate.
5. I will fish responsibly.
6. I will be safe on the water when in a boat.
7. I will learn more about how I can help protect a marine threatened species.
8. I will be mindful that drains lead to the ocean.
9. I will be respectful of Sea Country and the Traditional Owner's cultural practices and heritage.

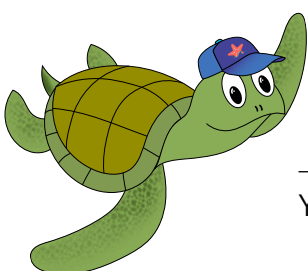


insert your own actions...

10.

11.

12.



YOUR NAME

DATE



THIS IS TO CERTIFY THAT

IS A MARINE ESTATE AGENT.

They have pledged to look after
the NSW marine estate and to
help others look after it too.

