Age 3-5 years

Amazing oceans

Self-guided learning

This guide provides exciting and inspiring information linked to key displays throughout SEA LIFE London Aquarium to help young children get the most out of their trip. The information will add an extra dimension to the trip and help children to learn more about the animals they see whilst practising key skills.

There are also accompanying 'explorer sheets' containing activities. You may wish to print out copies for each child or if you are worried about them getting lost, you could print out one copy at A3 size and ask children to take it in turns to complete it as you go round. For those groups choosing not to use explorer sheets we have included simple alternative activities that don't require any additional materials.

Workshops

Fun and engaging workshops that help consolidate learning and add an extra dimension to the trip are also available. Further details about workshops can be found on our website or by speaking to our team before your visit.

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10-11

Learning objectives

By completing this tour children will:

- Learn about a range of marine animals and the differences between them.
- Understand that animals act in different ways and why.
- Be able to talk about how an underwater environment is different from other environments.
- Build self-confidence by trying new things.
- Help develop communication and language skills through listening and speaking.





Introduction

Use the questions on this page to introduce this topic to your group before starting your tour.



Where can you find water?

You can find water in lots of places like rivers, ponds and oceans.

Has anyone been to the beach and seen the sea? What was it like?

Seas are really big areas of water in between two pieces of land. A sea can be really deep in the middle or really shallow at the edges.

Does anyone know about any animals that live in the sea?

The sea is home to lots of different animals. Some of the animals are really tiny and others are really big. They are all different shapes and colours.
There are more types of animal living in the sea than there are living on land. As well as being home to lots of fish, other animals like sea turtles, octopuses and seahorses live in the sea too.

Can anyone tell me what the biggest animal under the sea is?

The biggest animal under the sea is the Blue Whale. It is much bigger than any other animal on Earth – including the African Elephant (the biggest animal that lives on land).

Today we are visiting SEA LIFE which is an aquarium. An aquarium is a place where lots of animals that live underwater are kept. The animals live in big tanks made of glass that are filled with lots of water.

Let's start our adventure and find out more about life under the sea. We will meet some friends along the way who will tell us more about themselves!



Teacher's map



Activities

Shark Reef Encounter

• Feeding times:



Rockpool

- Rockpool activities
- Rockpool discussion notes (p4)

Nemo's Coral Caves

- Clownfish activities
- Clownfish discussion notes (p5)
- Feeding times:



Tidal Reach

- Octopus activities
- Octopus discussion notes (p6)

Ray Lagoon

• Feeding times:



Seahorse Temple

• Seahorse activities discussion notes (p7)

Rainforests of the World

• Feeding times:



Ocean Tunnel

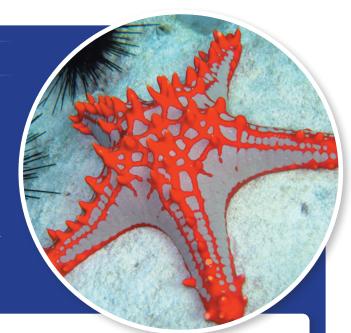
- · Sea turtle activities
- **Sea turtle** discussion notes (p8)
- Shark activities
- Sharks discussion notes (p9)

For more information on feeding times please check at the admissions desk on arrival.

ROCKPOOL

Visit Area: ROCKPOOL

A rockpool is a small pool of water found amongst rocks next to the sea. Lots of different animals live in rockpools, even though it can be a difficult place for them to survive because of the huge waves and hot sun!



Questions:

Who can tell me the names of any of the animals in the rockpool?

Introduce the relevant creatures. These will most likely include: starfish, anemones, mussels and crabs.

All of these animals are very different. Can you tell me which ones have legs?

That's right, the crabs and starfish have legs but the others don't.

And which ones have a shell?

The crabs, starfish and mussels all have a hard shell on the outside. They use this to protect themselves from other animals that want to eat them.

Crabs have amazing claws! What do you think they use these claws for?

They use their claws to catch food and protect themselves. Can you all make your hand into a claw shape?

Look at the strange way that a crab moves. Can you walk like a crab?

Because of the way crabs' legs work they prefer to walk sideways instead of forwards or backwards.

Are any of the animals not moving?

All of the animals in the rockpool are able to move but some, like Sammy the starfish, move very, very slowly. In fact he moves so slowly that you can't even see him moving. Let's all try moving as slowly as possible.

If a starfish loses one of its arms then the arm will grow back!

FACT

Not all starfish have 5 arms – the Sun Star can have up to 40!



Rockpool Activity

Children can touch a crab or a starfish at the rockpool under the guidance of a SEA LIFE London Aquarium expert. Ask them to count how many legs each creature has.



Explorer Sheet Activity

Ask the children to draw a picture of a starfish. As a group count the number of arms that the starfish has and ask children to write that number in the box.



CLOWNFISH

Visit Area: NEMO'S CORAL CAVES

Clownfish are brightly coloured fish that live in warm shallow water. They have a very special friendship with another ocean creature called the anemone that helps to keep it safe.



Questions:

In this display we can find Chloe the clownfish and her friends! Who has seen a clownfish before?

Some children might remember seeing a clownfish in the popular film Finding Nemo.

Do you know where Chioe the clownfish lives?

She lives inside the poisonous tentacles of her best friend – Andy the anemone. Andy keeps Chloe safe because other fish can't swim into his poisonous tentacles without getting stung.

Normally clownfish and anemones can be found living on a coral reef. Does anyone know what a coral reef is?

Coral reefs look like brightly coloured rocks but they are actually groups of animals that live for a very long time. They are a bit like underwater cities because thousands of amazing animals live there including turtles, sharks, octopuses and lots of fish.

What colour is Chloe?

That's right; she is orange and white.

Who would like to sing a song about clownfish?

Okay, sing the words after me...

I'm a little Clownfish (Sung to the tune of: "I'm a Little Teapot")

I'm a little clownfish, I can swim. Here's my tail, here are my fins. When I want to have fun with my friends, I wiggle my tail and dive right in!



Clownfish Activity

Sing 'I'm a Little Clownfish' with your group.

FACT All Clownfish are born as boys.

FACT

In the wild clownfish can live for up to 10 years.



Explorer Sheet Activity

Ask pupils to colour in the picture of the clownfish on their exploration sheet.



OCTOPUS

Visit Area: TIDAL WAVE

Octopuses are strange looking creatures with round bodies, big eyes and long arms. They live in seas all around the world and like to eat crabs, lobsters and shrimp. Octopuses have some clever ways to stay safe from other bigger animals that like to eat them.



Questions:

Can anyone spot Otis the octopus in the display?

Ollie doesn't have any bones so he can squeeze into really tiny spaces. He can get through a gap as small as a coin. Show me how tiny you can make yourself by rolling up into a ball!

How many arms does Otis the octopus

All octopuses have 8 arms. They help him to catch food and search in between small gaps in the rocks. His arms also help him to move around or cling to rocks.

He also has another cool way of moving around, do you know what it is?

He can move around by sucking in water and then blowing it out really hard. Let's see how hard we can blow!

Do you think Otis is clever?

Yes, he is very clever. Octopuses are one of the cleverest animals in the sea.

Can anyone think of any other ways Otis can hide from fish that tru to eat him?

He can change colour to become harder to see and can even squirt ink into the water to make it cloudy. That's amazing!

FACT

Some octopuses can unscrew jars with their strong arms!

All octopuses have a poisonous bite but hardly any are dangerous to people.



Octopus Activity

Ask the children to sit side-by-side in pairs and move all of their arms and legs in the same way that an octopus does.



Explorer Sheet Activity

Ask the children to trace the outline of the octopus' arms in the picture, counting the number of arms as they do so. Write the total number of arms in the box.



SEAHORSES

Visit Area: SEAHORSE TEMPLE

A seahorse is a tiny fish that lives in warm seas around the world. It has the name 'seahorse' because its head looks a lot like a tiny horse's head. It has a very strong, curly tail that helps it to hold onto things in the sea.



Questions:

Can you see Mia the seahorse and her friends in the display?

Mia and her friends have quite a strange way of swimming that is different to the other fish we have seen today. They swim with their heads up and their tail down instead of with their tail behind them.

If you look very closely can you see Mia's tiny fins that help her swim?

Seahorses can flap their fins 35 times every second. That's very quick! Let's see how quickly we can all flap our arms?

Even though seahorses move their fins so quickly they are still the slowest swimmers in the sea.

Are any of the seahorses using their tail to hold onto anything?

Mia and her friends are so small that they have to cling onto pieces of grass to avoid being swept away by the water.

How many meals do you eat a day? Do you think that's more than a seahorse eats? Seahorses are very greedy; they can eat up to 50 times a day!

Lots and lots of seahorses are killed every year. How do you think we can help protect Mia and other seahorses?

We must make sure that we don't leave any rubbish when we go to the beach and never keep seahorses as pets.



Seahorse Activity

Ask the children to name the colours of the different seahorses. What other colours can they see in the display?

A seahorse can look forward and backwards at the same time!

FACT

A seahorse's body is very bony so most animals don't like to eat them.



Explorer Sheet Activity

Ask the children to look at the colour of the seahorses in the display and then colour in the image on their explorer sheet accordingly.



SEA TURTLES

Visit Area: OCEAN TUNNEL

Sea turtles are slow swimming creatures that can live for a very long time. Some can live to be 150 years old! Sea turtles have been on Earth for a very long time too – as far back as when dinosaurs still ruled.



Questions:

Do you think sea turtles can swim very far?

Even though they are slow swimmers they can swim thousands of miles to find food or lay their eggs.

In this display you can see Tyler who is a Green Sea Turtle. Can you describe how Tuler moves around?

He uses his big flippers to push himself through the water, a bit like a bird does to fly. Let's all see if we can move like Tyler. Think about how slowly he moves while you are copying him.

What does Tyler have on his back?

That's right – a shell! Sea turtles' shells are really hard and help protect them from animals that try to eat them.

What makes sea turtles different to fish?

One of the things that make sea turtles different to fish is that they can't breathe underwater. Sea turtles have to come up to the surface to breathe but they can hold their breath for a very long time. Tyler can hold his breath for over 5 hours when he is resting!

Let's see how long we can hold our breath for...

FACT

The largest species of sea turtle weighs the same as a female Giraffe!

FACT

There are 7 different types of sea turtle.

FACT

Sea turtles' ears are underneath their skin.



Sea Turtle Activity

Ask the children to put their fingers in their ears so that their hearing is like a sea turtles'. Discuss how it sounds different.



Explorer Sheet Activity

Ask the children what letter the words 'Sea' and 'Turtle' begin with? Now ask them to trace the dotted lines on their sheet to practice writing an 'S' and a 'T'.



SHARKS

Visit Area: OCEAN TUNNEL

There are lots of different types of sharks in oceans around the world. Some live in warm water and others prefer very cold, icy seas. Although sharks can be very big and have sharp teeth, most of them are harmless to humans.



Questions:

Has anyone lost a tooth recently? Did you grow a new one?

Like us, sharks' teeth are very important to them. Without their teeth they aren't able to eat so they need them to survive. They have lots of rows of teeth. If one falls out another one moves into its place, so a shark never runs out of teeth!

Can you see Magnus the shark in the display? Does he look different to how you expected?

Sharks aren't always grey – some are black, blue or even yellow with spots! Some sharks are much smaller than others. Hammerhead Sharks have a strange shaped head with eyes that are really far apart.

The colour of a sharks' skin can help it to hide. Why might a shark want to hide?

Lots of animals in the sea hide from other animals that might try to eat them. But for lots of sharks

it's the other way round. They stay hidden until an animal they are trying to catch swims close enough for the shark to attack and eat it. Can you see any sharks hiding in the sand?

What do you think sharks eat?

Most sharks eat meat and fish from the sea. Some sharks even eat other sharks!

Look how big the shark tank is compared to the other tanks, why do you think it is so big?

Sharks like the Blacktip Reef Shark have to keep swimming all the time to survive. This means that they need lots of space to move around in.

FACT

Baby sharks are called pups.

FACT

Sharks existed before the dinosaurs.



Shark Activity

Ask the children to show you their teeth. Are they as big as sharks' teeth? Ask them to open their jaws as wide as they can. Explain that sharks have one of the strongest jaws on the planet.

Sharks don't have any bones.



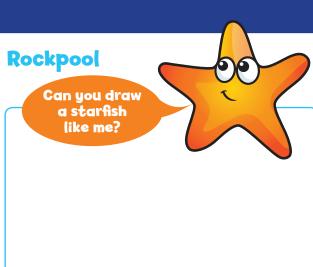
Explorer Sheet Activity

Look closely at the sharp, pointy teeth of a Blacktip Reef Shark in the display. Ask the children to draw some teeth in the mouth of the shark on their explorer sheet.



SEALIFE

Find out about Amazing oceans

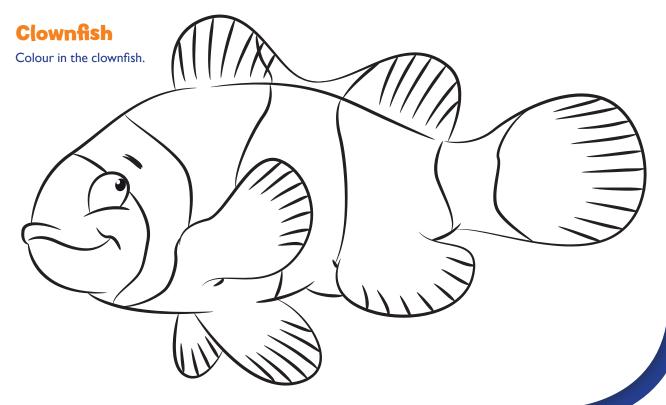


Octopus

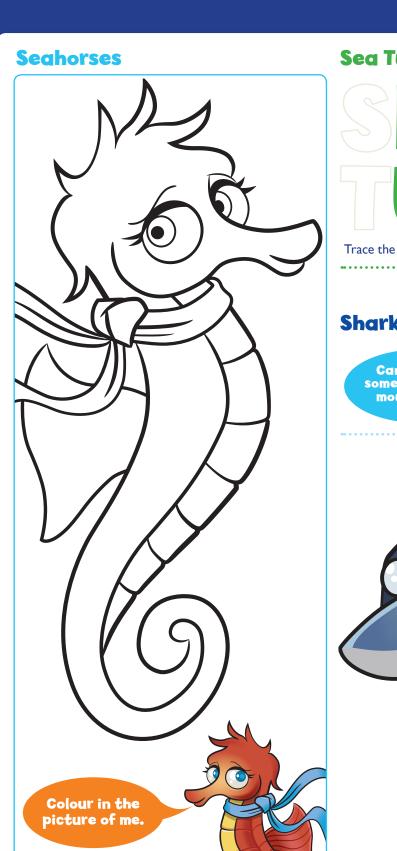
Trace the arms of the octopus.

Write how many arms a starfish has _____

Write how many legs an octopus has _____



Find out about Amazing oceans





Trace the first two letters above to spell Sea Turtle.



