

Ocean Animals

Science

Year 1/2

Lesson 3 of 3

Learning Objective		Resources
To consider how ocean animals are suited to the environment in which they live.		Slides Question Cards Worksheet 3A/3B Animal Cards (FSD? activity only) Habitat Cards (FSD? activity only)
Teaching Input		
<ul style="list-style-type: none"> Show children the pictures of two animals on the slides. Which of these two animals can live in the ocean? Why? Children to share their responses. How about these two animals? Why can one live in the ocean and the other can't? Again, children to share their ideas. Explain that animals live in different habitats and that animals are adapted to suit their environment in different ways. Go through some examples of how some land animals are suited to their environments, then look in more detail at a variety of different ocean animals and how they are adapted to suit life underwater. Show children the two pictures of octopuses. How are octopuses suited to their ocean habitat? Give children some time to discuss their responses, using the questions on the slides as prompts. 		
Main Activity		
<u>Lower ability:</u> Provide children with a set of the Question Cards in small groups. Children to take it in turns to pick a card to discuss as a group, e.g. Why does a shark have fins instead of legs? You may wish to provide adult supervision to support children in reading the questions.	<u>Middle ability:</u> On worksheet 3A, children to use their own words to describe the ways in which three ocean animals are suited to their ocean habitat. Children to use the word bank to support them.	<u>Higher ability:</u> On worksheet 3B, children to use their own words to come up with three reasons why each of the animals shown can or can't live in the ocean.
Fancy something different...?		
<ul style="list-style-type: none"> Provide children with a set of the Animal Cards and Habitat Cards in pairs or small groups. Children are challenged to match the animal to its most suitable habitat. When children have matched each one, they could stick the matched cards on a large sheet of paper, then add their own pictures or information about other animals that live in each habitat, giving reasons why they are suited to their environment. 		
Plenary		Assessment Questions
Ask children to think of the most interesting facts they have learnt about ocean animals over the last few lessons with a partner. Give children some time to discuss their ideas, then ask each pair to choose their top fact to share with the class.		<ul style="list-style-type: none"> Do children know that animals live in different habitats depending on their needs? Can children identify ways in which different ocean animals have adapted to their environment? Can children suggest reasons why different habitats are suitable for some animals but not others?

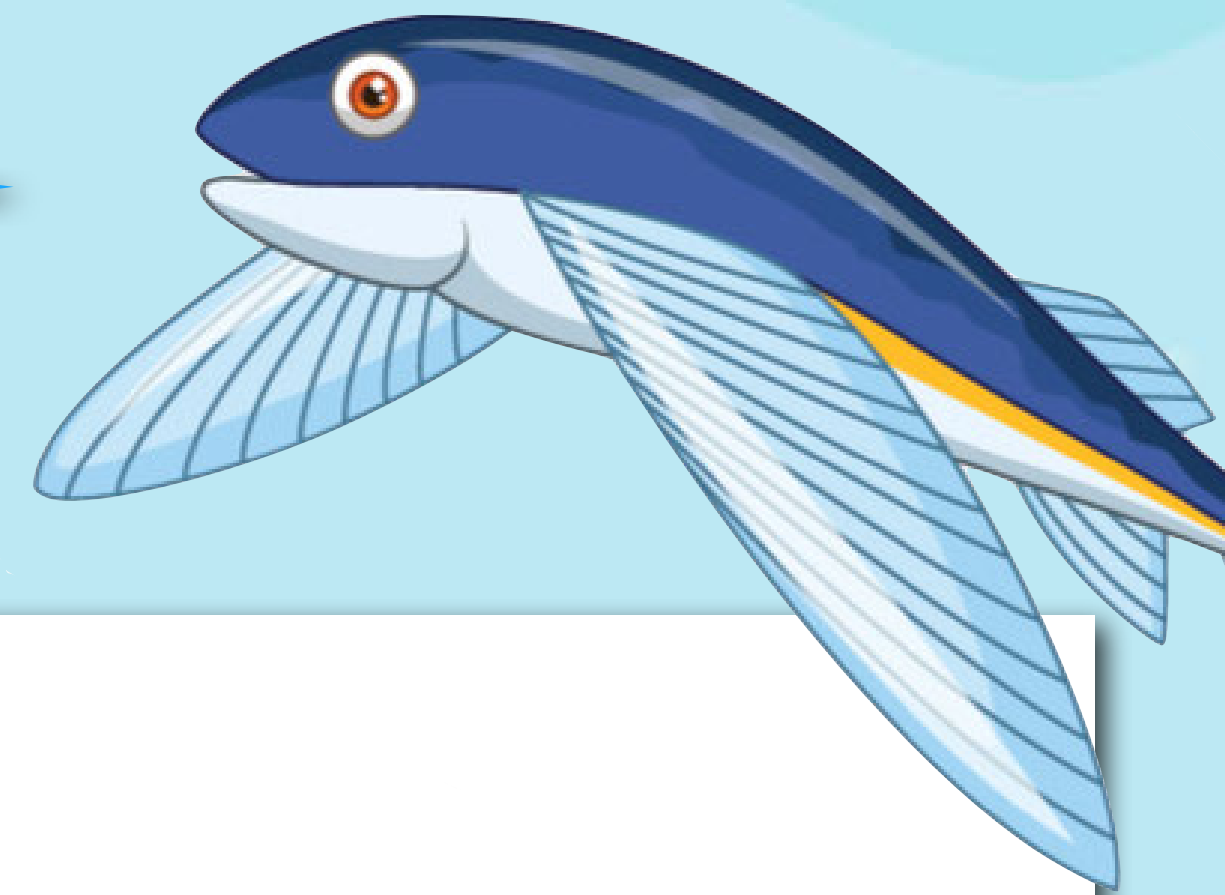
Ocean Animals

Today we will be...

Thinking about how ocean animals are suited to their ocean habitats.



Which of these two animals can live in the ocean?
Why?



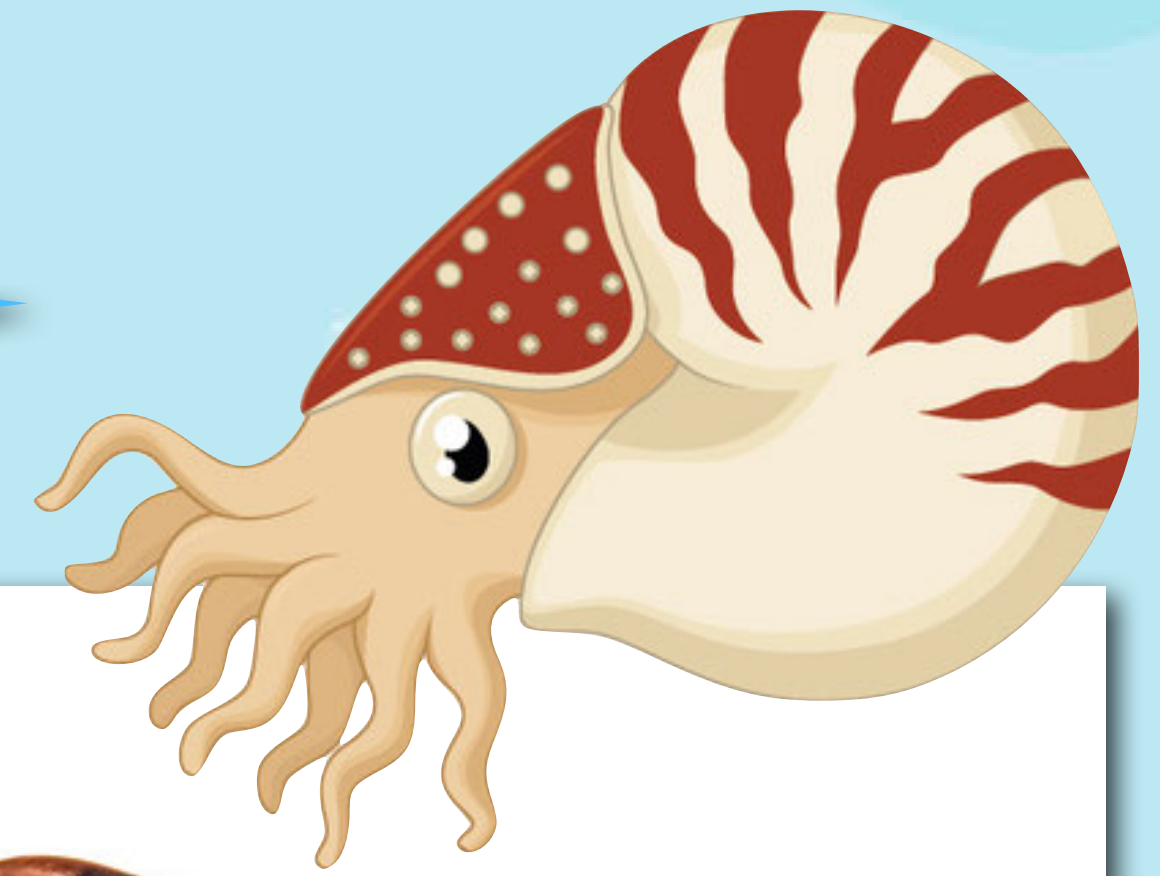


This great white shark **can** live in the ocean. It has gills which let it breathe underwater. It has a tail and fins to help it swim in the water. It can eat by catching fish and other ocean animals in its teeth as it's swimming.

This seagull **cannot** live in the ocean. It is a bird so it needs to breathe air. It has wings to help so it fly in the air to find food. It lives near the coast so it can catch small fish to eat.



How about these two animals? Which can live in the ocean and why?



This bee **cannot** live in the ocean. Bees need flowers for nectar and these flowers do not grow underwater. Bees cannot breathe underwater and they wouldn't be able to move easily as their wings are meant to be used in air, not water.



This crab **can** live underwater. It has gills so that it can breathe underwater. It can use its claws to catch other ocean animals to eat. Its shell helps to protect it from predators.



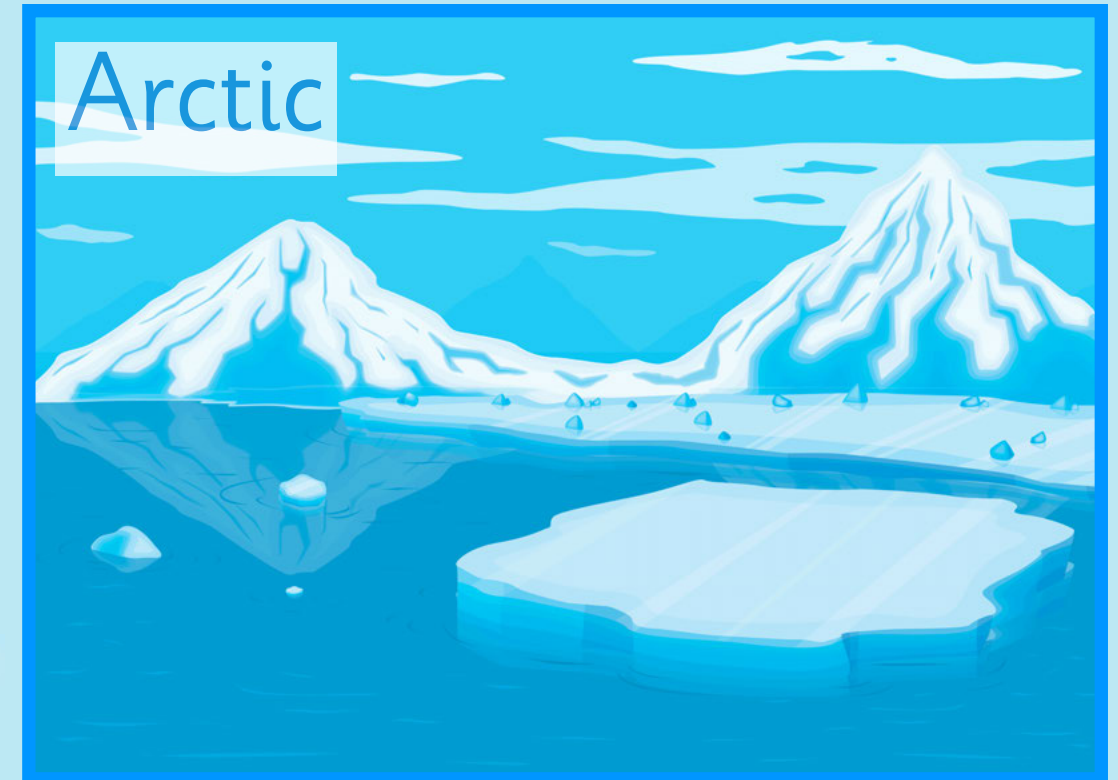
Animals live in lots of different **habitats**. The ocean is a very big habitat that thousands of different types of animals live in. All animals who live in the ocean are suited to living underwater and the ocean provides everything they need to stay alive.

Here are some other types of habitat. How many more can you think of?

Desert



Arctic



Field





Cows and sheep live in a field habitat. These animals need to eat lots of grass every day so a field allows them to graze as much as they want. Cows and sheep are mammals so they need to breathe air.



These monkeys live in a rainforest habitat. Their long arms, legs and tails help them to swing quickly through the trees. The trees also provide them with plenty of fruit to eat and give them a place to escape from predators.



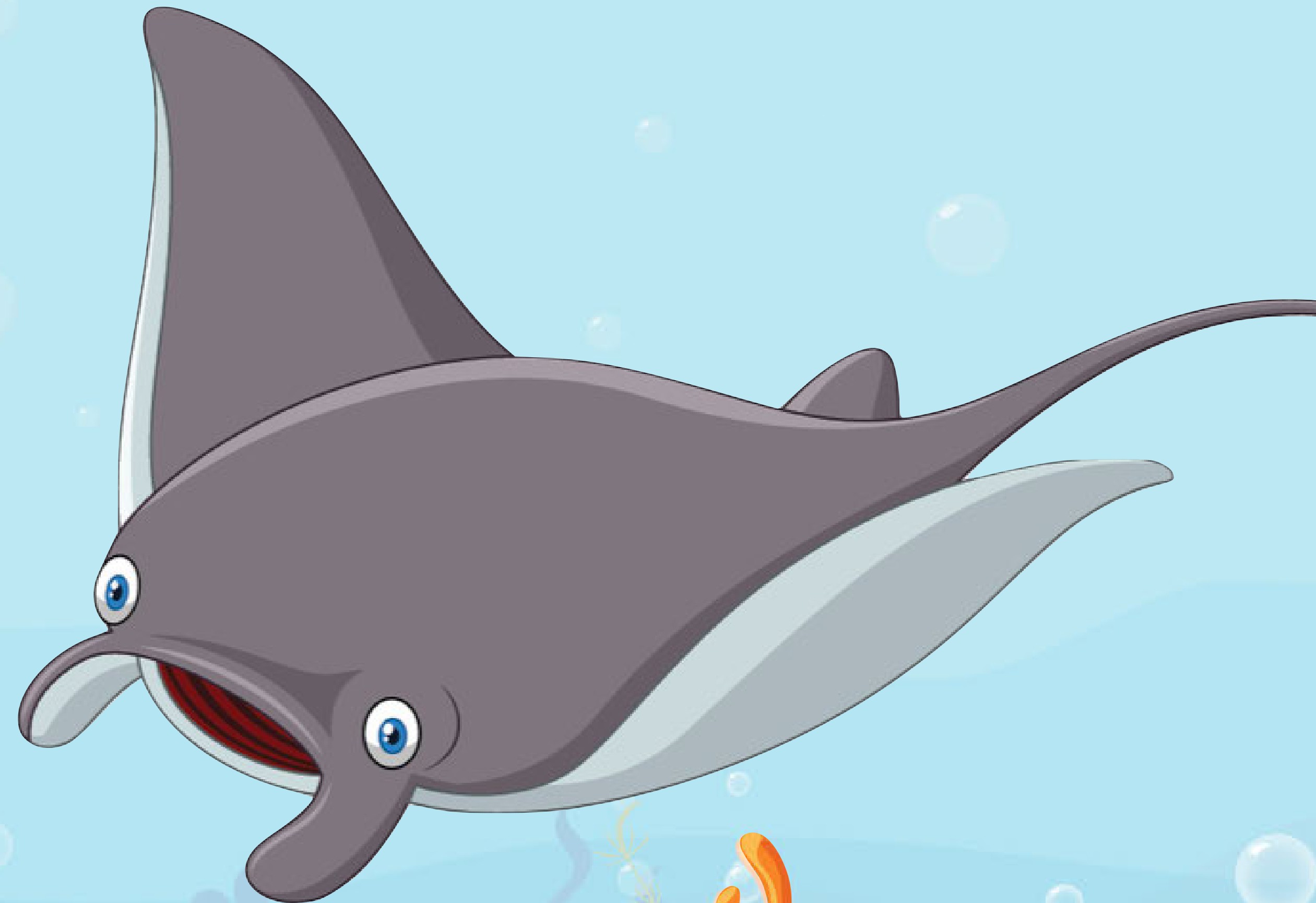


These polar bears live in an Arctic habitat. Their thick fur helps to keep them warm and they have large feet to help them walk on ice without falling through it. They have sharp claws to help them catch fish and can swim to get the food they need.



Ocean animals have lots of special features that allow them to live underwater, unlike the animals we have just looked at.

One of the most important features is **gills**. Do you know what gills are for?



All animals need to **breathe** in order to survive. For lots of animals, including humans, this means breathing air in and out of their lungs.

Air contains the **oxygen** animals need to survive but there is also oxygen in water. Gills allow animals that live underwater to take in the oxygen from the water.

Can you
breathe in and out?
What happens to your
chest when you
breathe?



Ocean animals that don't have gills have other ways of making sure they can breathe. Dolphins and whales have **blow holes** which allow them to breathe out and breathe air in when they reach the surface of the water.

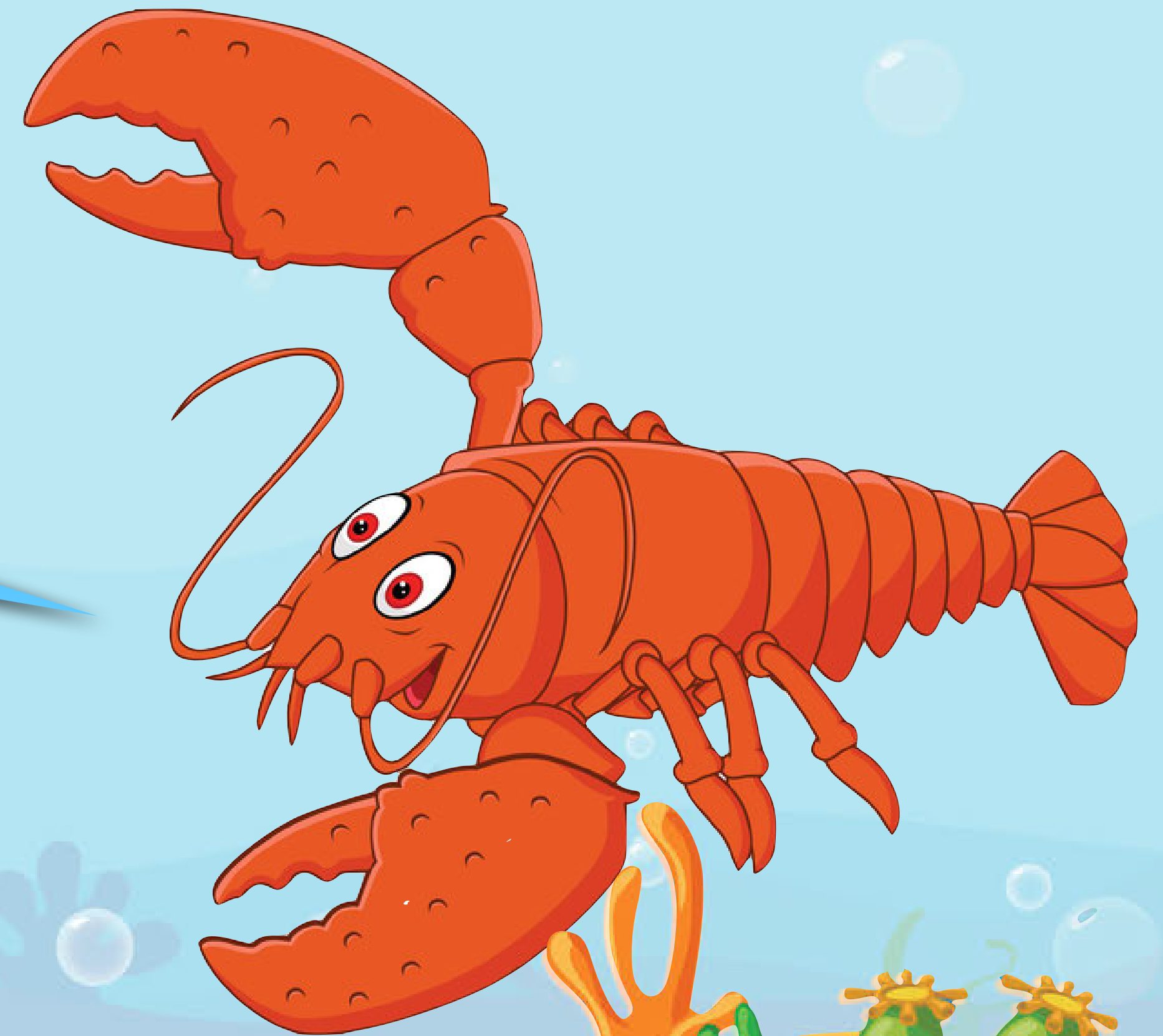


Can you
see this
dolphin's
blow hole?



Ocean animals also have different skin to land animals. Humans and other mammals have skin covered in hair which isn't designed to be in water for long periods of time. Fish, octopuses, eels, jellyfish and other sea animals have skin which is completely waterproof.

Have you ever sat in the bath for too long? Did you notice anything happening to your fingers?



Ocean animals like fish, sharks and dolphins, don't live on the ocean floor but spend their time swimming through the water. They need to be able to move quickly through the water. These animals have strong tails that they move backwards and forwards to propel them forwards. They also have fins they can move so that they can change direction as they are swimming.



Can you see this shark's tail and fins?
How would having legs and arms instead of a tail and fins be difficult for a shark?



Other ocean animals, like crabs and lobsters, need legs so they can walk along the ocean floor. These animals are also able to swim using their legs. They spend most of their time scuttling along the sea bed but can also swim away to find food or to escape from predators.



How are octopuses suited to their ocean habitat?



How does it
breathe
underwater?

How is it able to move
in the water?

What is its
skin like?

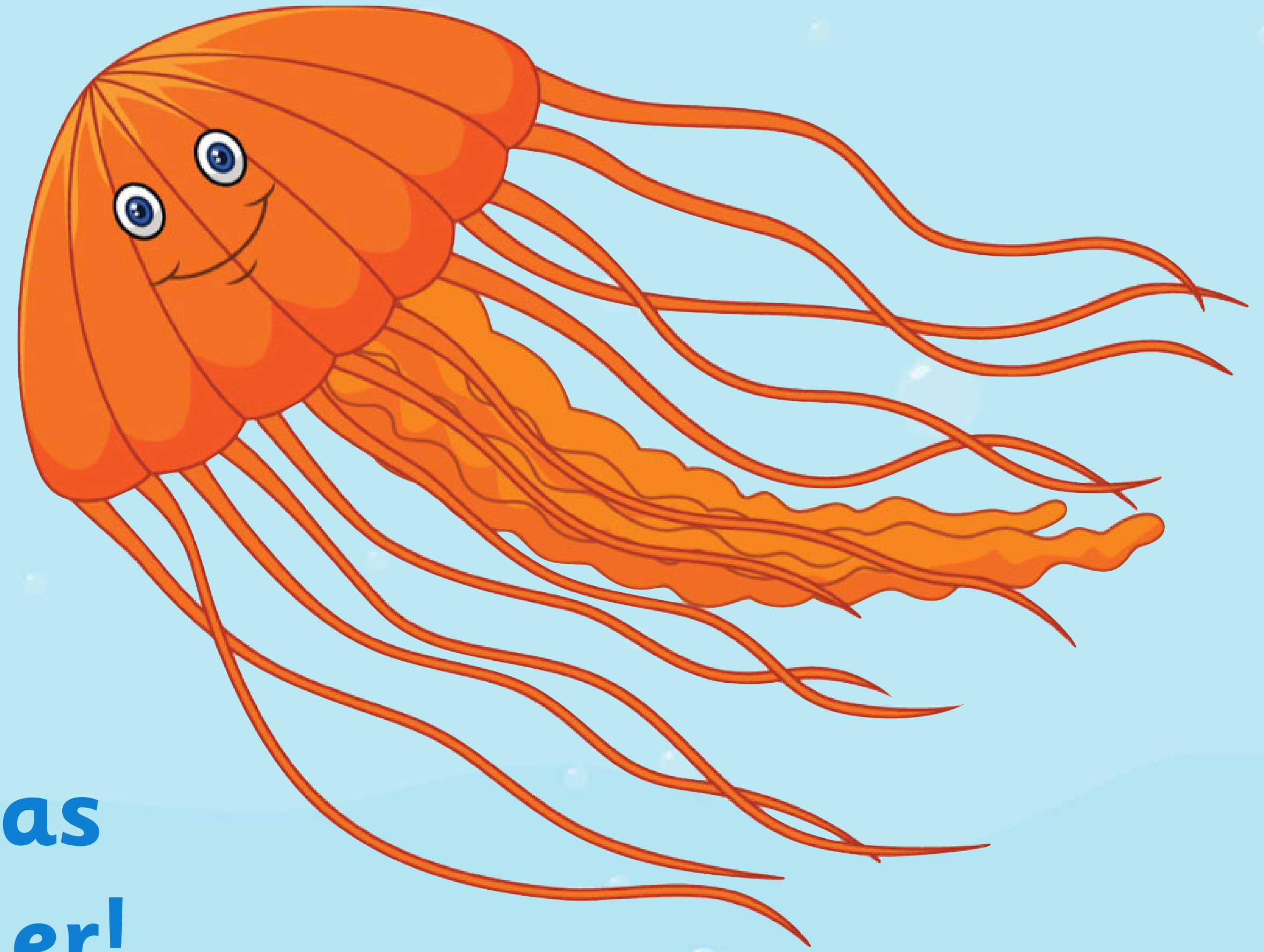


Good work
everyone!



Plenary:

What interesting facts have you found out about ocean animals over the last few lessons?



Think of as many facts as you can with your partner!



Now choose
your favourite fact to
share with the rest of
the class!

Why do sharks have fins instead of legs?



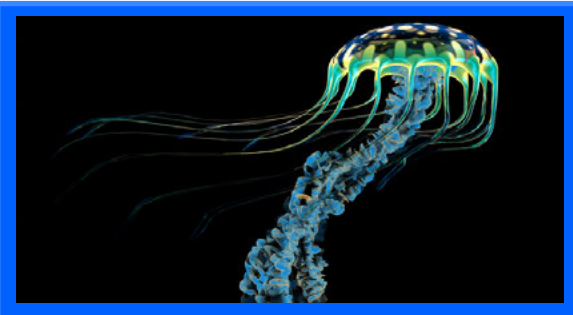
How are crabs able to move around in the ocean?



How are fish able to breathe under water?



Why do jellyfish have tentacles instead of arms and legs?



Why do fish have tails?



Why do dolphins have blow holes?



Why can't people live in the ocean?



Why can't birds live in the ocean?



Name: _____

Date: _____

Complete these speech bubbles to explain why these animals are suited to their ocean habitat.



gills

fins

blow hole

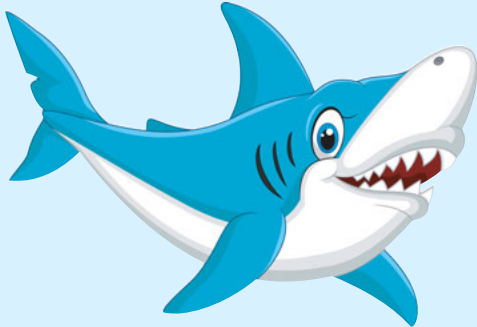
skin

tail

legs

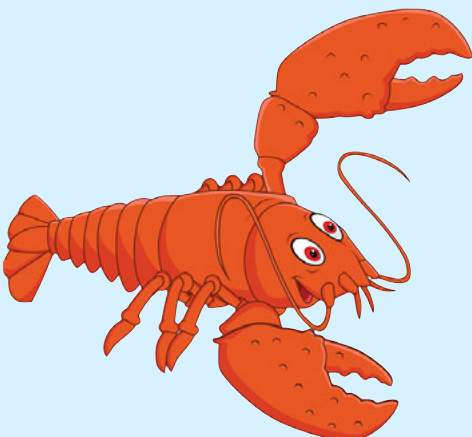
swim

eat

I am a **shark**.

I suit my ocean habitat because

I am a **whale**.
I suit my ocean habitat because

I am a **lobster**.

I suit my ocean habitat because

Name: _____

Date: _____



Give three reasons why each of these animals **can** or **can't** live in the ocean.

Cows **can't** live in the ocean because...



Reason 1:

Reason 2:

Reason 3:

Sharks **can** live in the ocean because...



Reason 1:

Reason 2:

Reason 3:

Crabs **can** live in the ocean because...



Reason 1:

Reason 2:

Reason 3:

Birds **can't** live in the ocean because...



Reason 1:

Reason 2:

Reason 3:



squirrel



walrus



whale



camel



owl



polar bear



duck



reindeer



lizard



fox



fish



frog



lobster

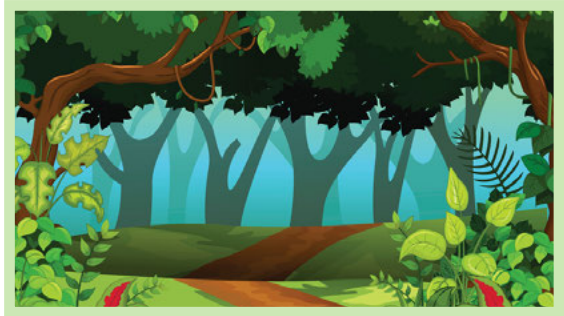


dragonfly

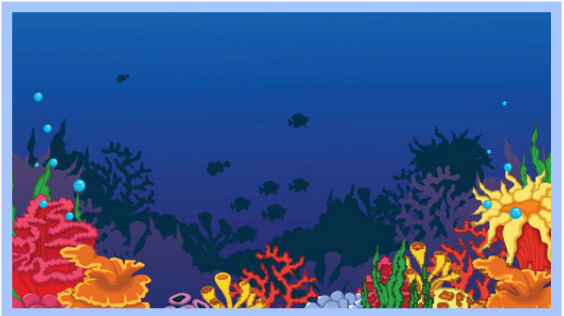


snake

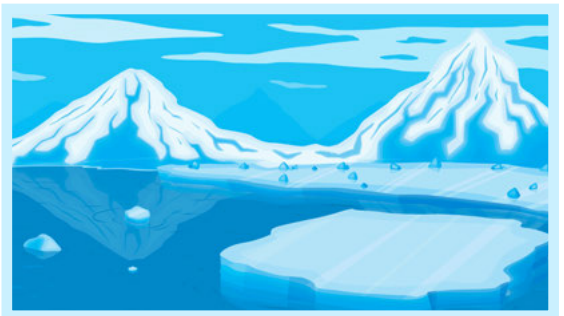
Forest



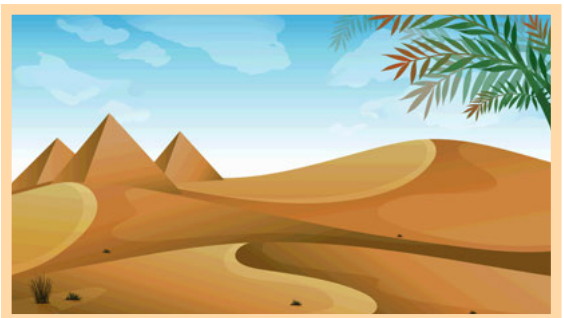
Ocean



Arctic



Desert



Pond

