

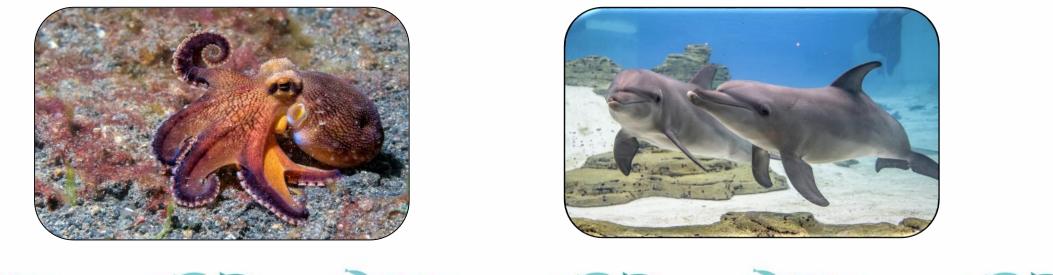


S.E.A. AQUARIUM EDUCATOR RESOURCES

PRIMARY SCHOOL Adept With Adaptations

What Are Adaptations?

"Adaptations are **special characteristics** of an organism that **enhance its survival** in its environment"





Examples of Adaptations



Tentacles for gripping onto a substrate or prey
Able to change colour to camouflage

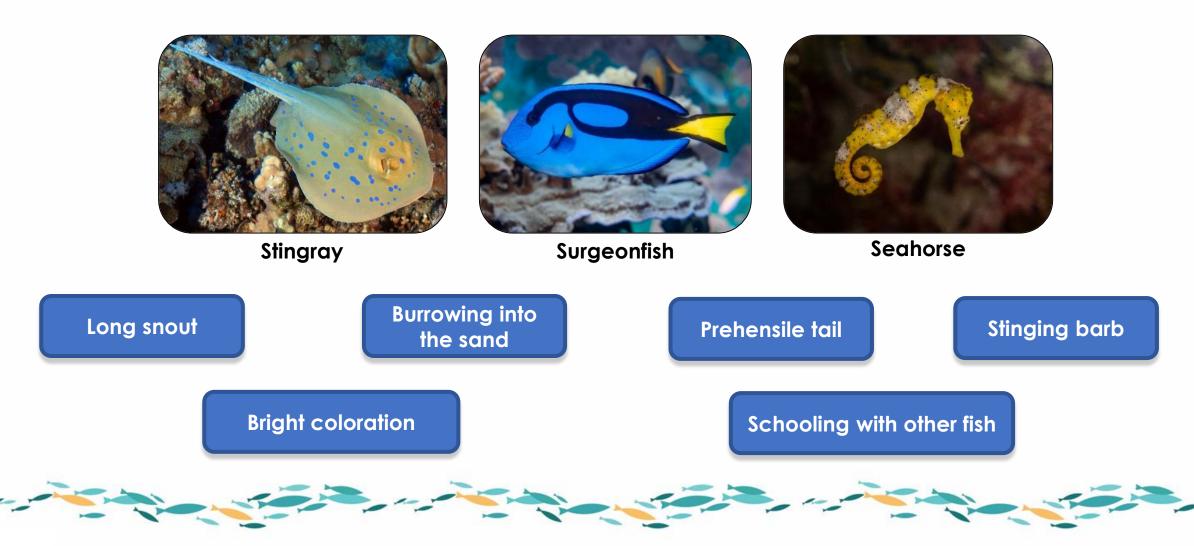


- Breathe through blowhole
- Engage in social behavior and work together



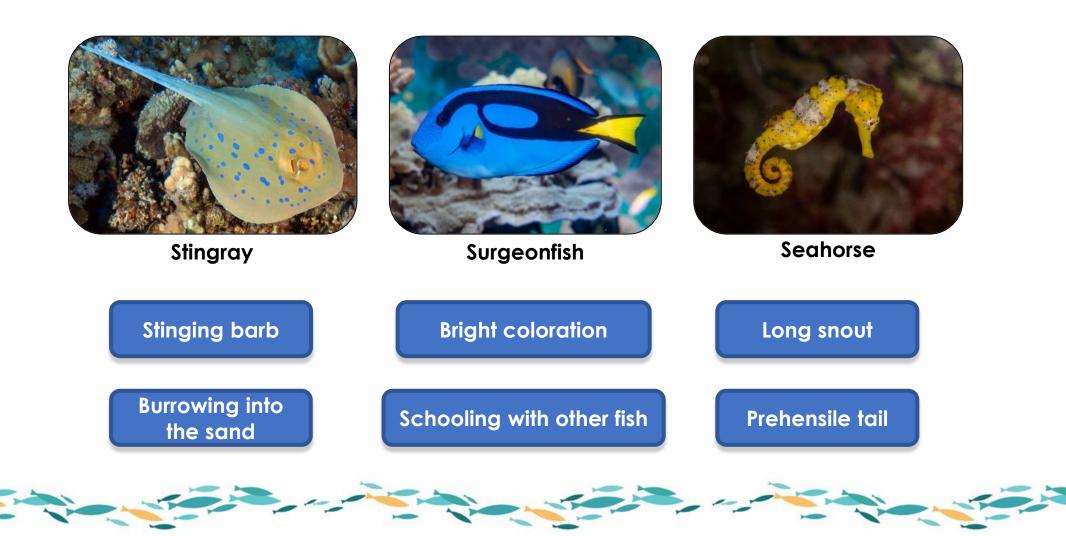
Class Activity

Match the correct adaptations to each of the animals below.



Class Activity

Match the correct adaptations to each of the animals below.



Types of Adaptations

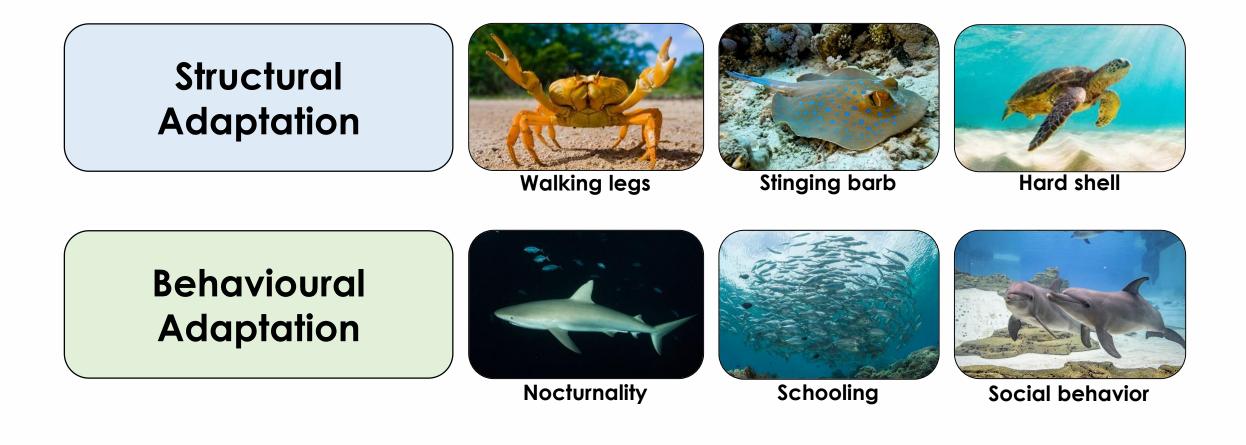


Behavioural Adaptation

Specific actions taken by an organism



Types of Adaptations



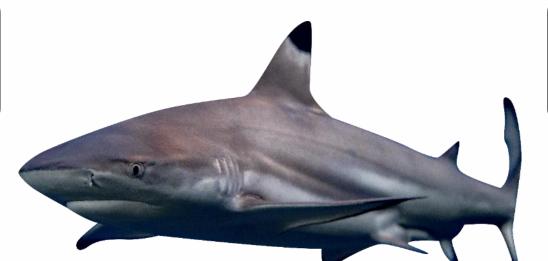


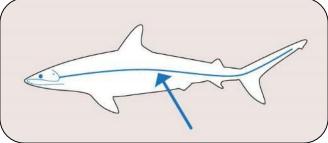
RWS Restricted

Group the following adaptations of a shark into structural or behavioural.



Oil-filled liver





Lateral line



Nocturnality



Rolling back of eyes



Ampullae of Lorenzini

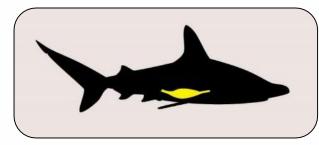


Test biting

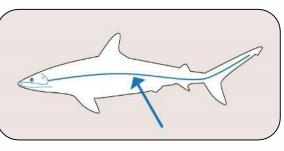


Structural Adaptations

Behavioural Adaptations



Oil-filled liver



Lateral line



Ampullae of Lorenzini



Test biting



Rolling back of eyes



Nocturnality



Adaptations and Their Functions



Feeding Movement Mating Defence



Match the organisms to their suitable habitats!

Hermit Crab



Moray Eel



Whale





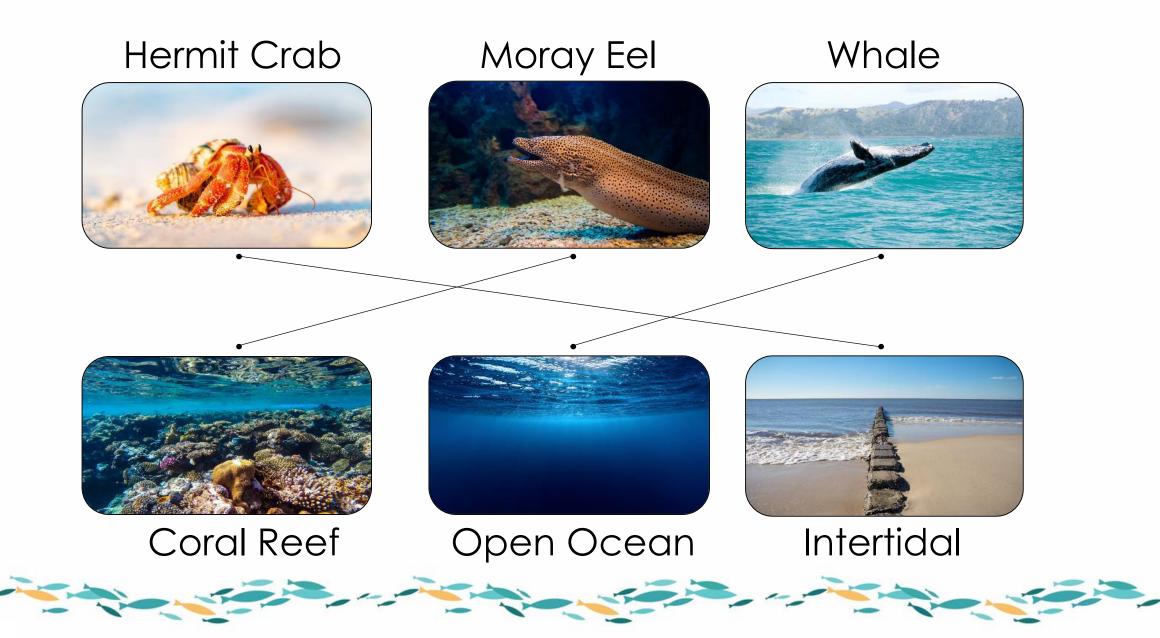




Open Ocean Intertidal



Match the organisms to their suitable habitats!



Group Activity!



- 1. Get into groups of 4 or 5.
- 2. List as many adaptations as you can for each animal shown in the next slide.
- 3. Explain how the adaptations you have listed help each animal to survive in its habitat.



Group Activity!

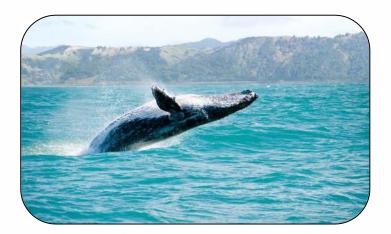
Hermit Crab

Moray Eel

Whale









Adaptations of a hermit crab

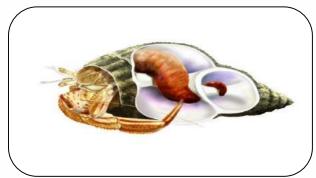
• Walking legs – enable hermit crab to move around the intertidal zone

• **Outer shell** – protects hermit crab from harm

• Hiding behavior – remain hidden from predators







Adaptations of a moray eel

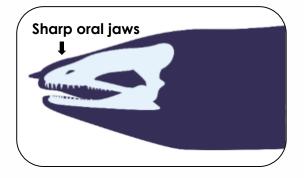
 Slender body shape – allows moray eel to swim into crevices of coral reefs

• **Spotted colouration** – camouflage with its surroundings

• **Sharp jaws** – sharp, needle-like teeth to grab onto its prey





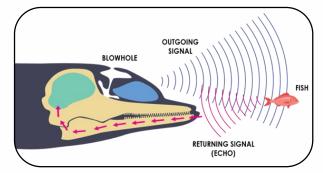


Adaptations of a whale

- Large flippers support whale's weight when swimming
- Blubber a thick layer of fat that keeps whale warm and helps it to stay buoyant
- **Blowhole** allows whale to breathe at the water surface
- Echolocation using sound waves to locate prey, mates, and navigate







Summary

- Adaptations are special characteristics of an organism that enhance its survival in its environment.
- Structural adaptations refer to **physical features** of an organism.
- Behavioural adaptations refer to specific actions taken by an organism.
- Every adaptation has a **function** to help an organism survive in its habitat.

