

Identify this animal. How does it regulate its buoyancy?



European cuttlefish, buoyancy is regulated via the cuttlebone which has small cavities that can be filled with air or water

Lobsters age in a unique way. Explain.

Lobsters will not slow down, weaken, or lose fertility with age. While they are not immortal lobsters do not 'age' the way humans do,

Identify three parts of the Kelp anatomy

Holdfasts, stipe, blades, gas bladders

Kelp is not considered a plant. What is it?

It is a type of brown algae

What body part is the narwhal's tusk? What purpose does it serve?

The tusk is a **modified canine tooth** in the upper left side of the jaw. Recent research suggests the tusk has some remarkable sensory capabilities, with up to 10 million nerve endings inside. The ivory tusk tooth grows right through the narwhal's upper lip. Scientists are not certain of the tusk's purpose, but some believe it is prominent in mating rituals, perhaps used to impress females or to battle rival suitors.

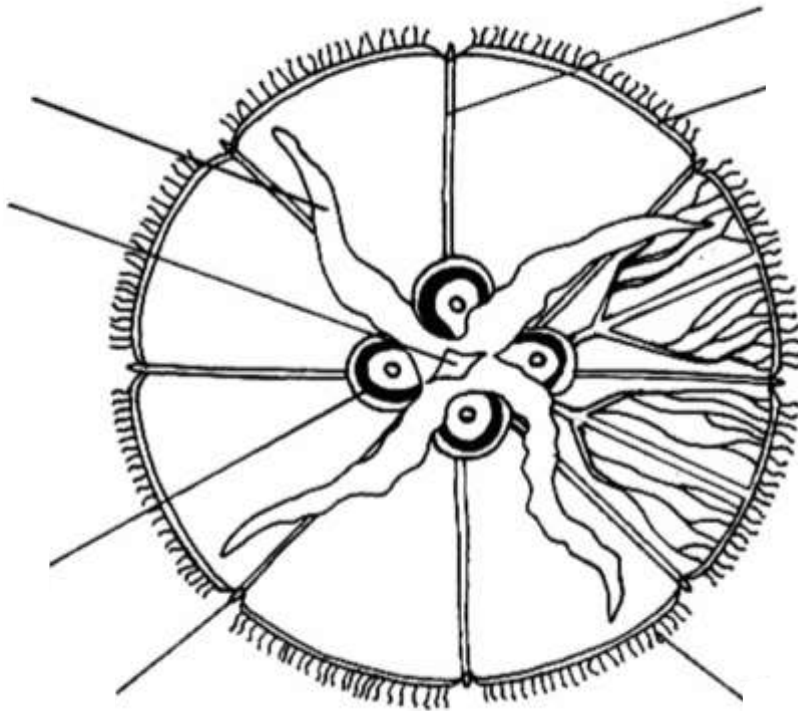
Identify two creatures at the aquarium whose cells are chromatophores. These light reflecting cells allow these species to rapidly change colour.

The octopus, cuttlefish, seahorse

Compare the breathing process of humans to Bonnethead sharks & stingrays

Humans breathe using their respiratory system, circulating  $O_2$  and  $CO_2$  through their body using the lungs and nasal passage ways, obtaining  $O_2$  directly from the air. Bonnethead sharks need to swim continuously in order to breathe efficiently, allowing  $O_2$  intake from pushing the water against their gills. Stingrays however can breathe without moving using their spiracles, the small holes located close to their eyes, which act like a pump/vent system allowing the  $O_2$  to be pushed over their gills continuously without having to swim constantly.

Label the anatomical features of the Moon Jellyfish.



How do Jellyfish breathe without any gills or lungs?

Instead of lungs or gills they absorb oxygen and nutrients through their bell.

Where is the Jellyfish heart and brain located?

Moon Jellies have no bones, muscles, blood or heart. They have no brain and they cannot think. A complex network of nerves sense and react to the world around them.