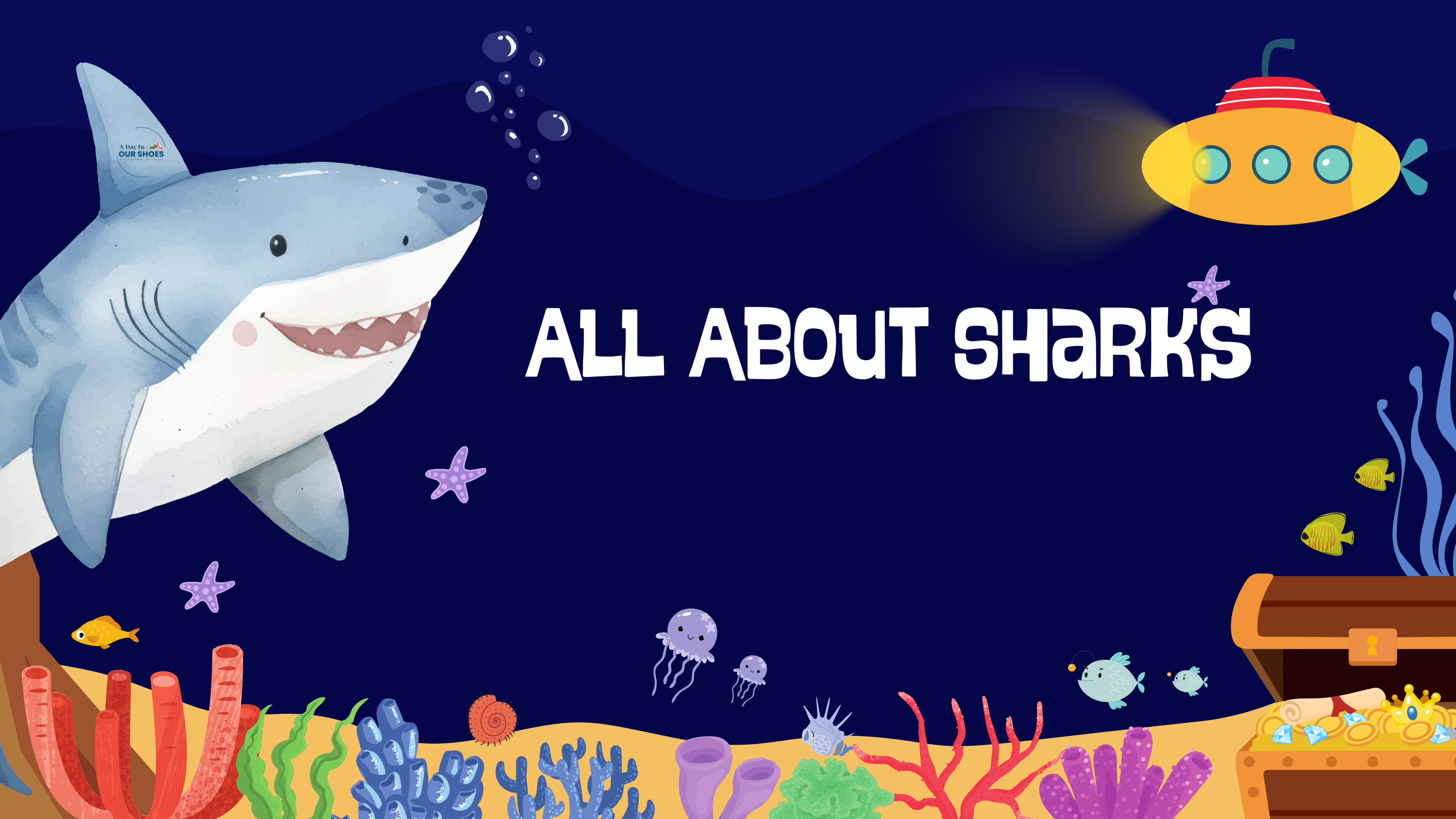




ALL ABOUT SHARKS

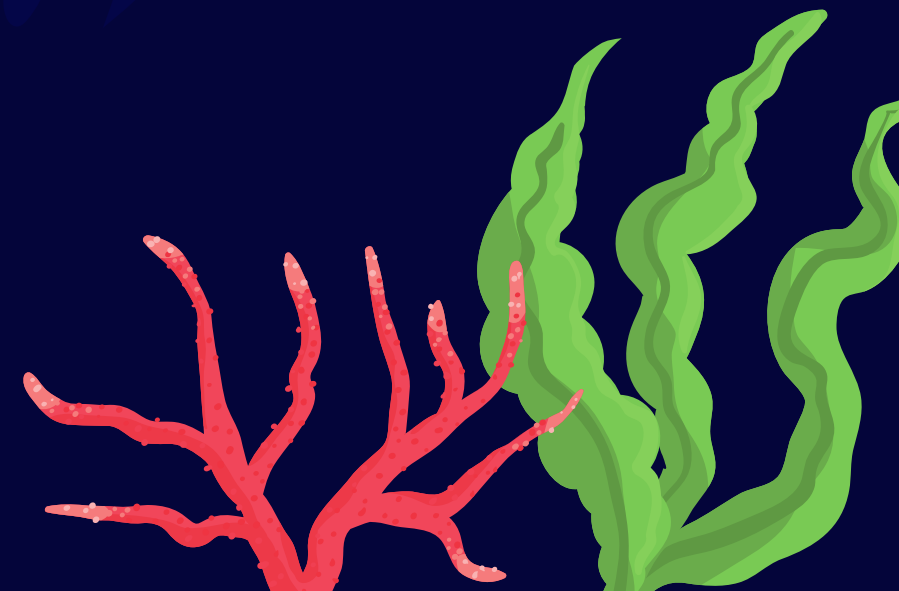


FUN FACT

There are more than 500 different species of sharks

WHAT IS A SHARK?

- ★ Sharks are a type of fish, not mammals
- 🌀 They breathe through gills on the sides of their body
- ★ Sharks live in oceans all around the world
- 🌀 They have been on Earth for over 450 million years, long before the dinosaurs!

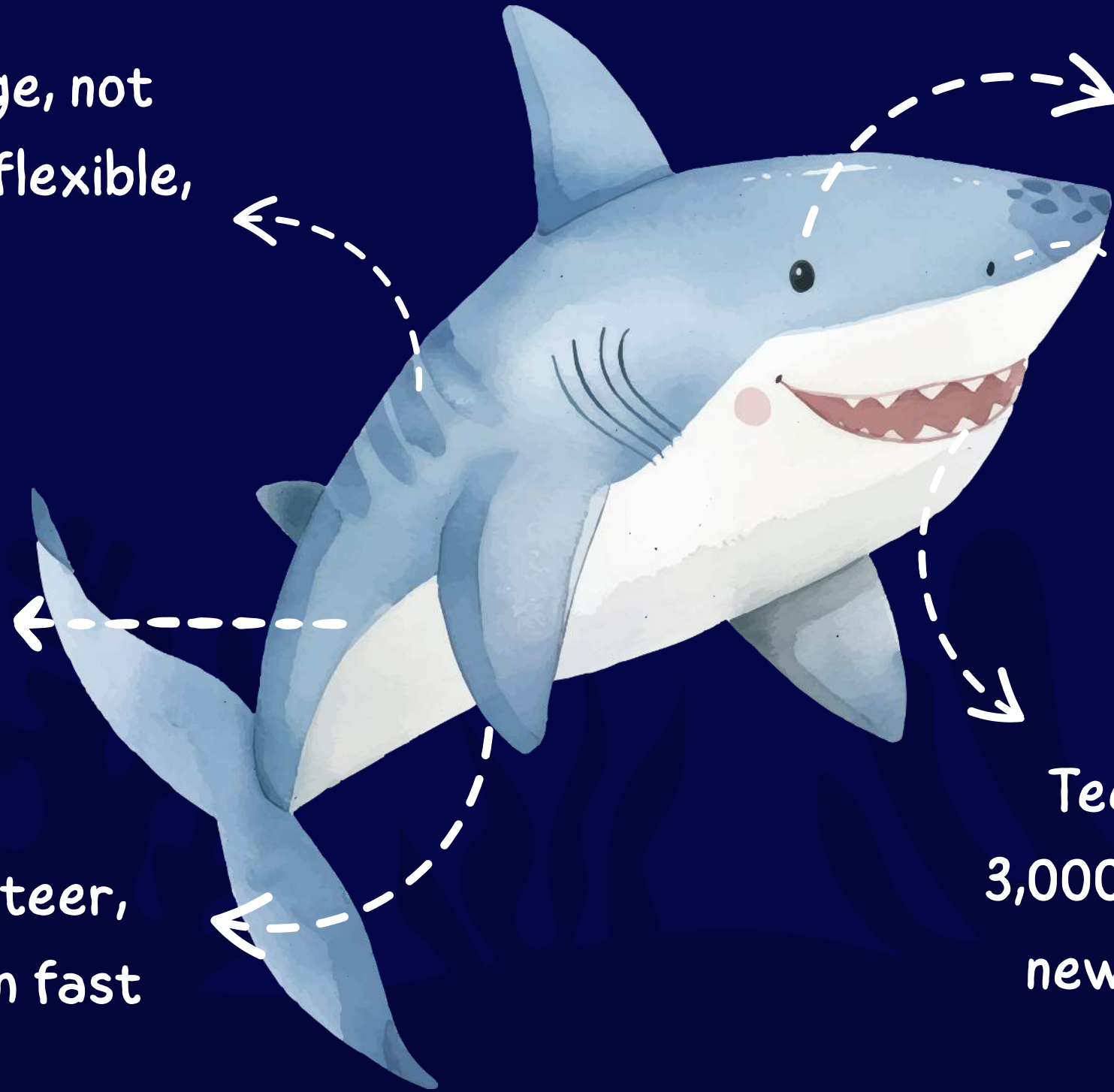


SHARK ANATOMY

Skeleton: made of cartilage, not bone (cartilage is soft and flexible, like your ear!)

Skin: covered in tiny tooth-like scales called dermal denticles that help them swim smoothly

Fins: help them steer, balance, and swim fast



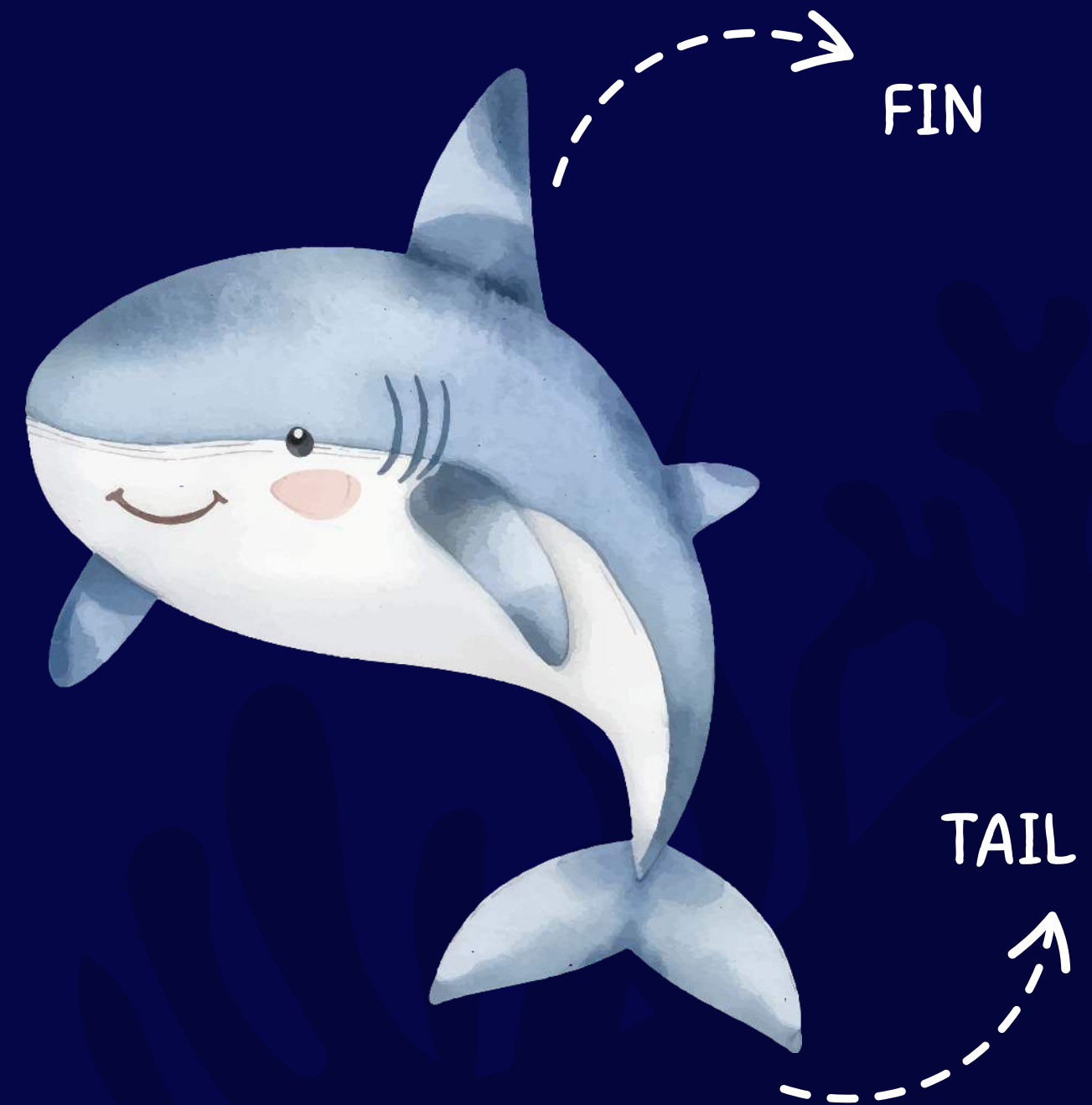
Eyes: can see very well in dark water

Nose: can smell a drop of blood from miles away

Teeth: sharks can have up to 3,000 teeth at one time and grow new ones throughout their life

HOW SHARKS MOVE & BREATHE?

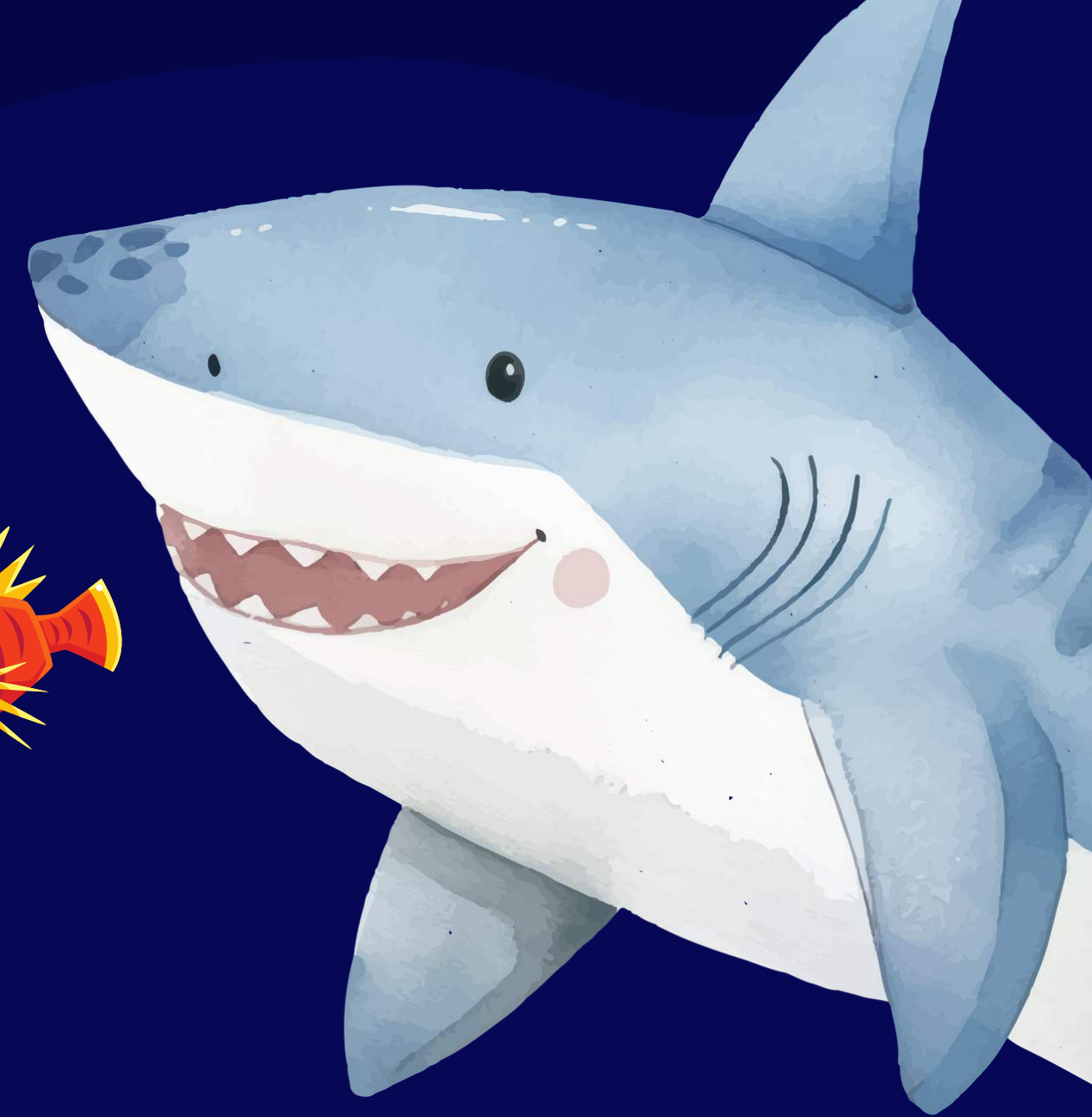
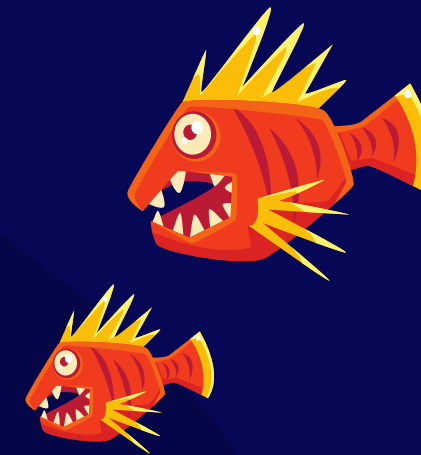
Sharks swim by swinging their tail and fin side to side, while their pectoral fins help them steer and their dorsal fin keeps them balanced. Most sharks must keep moving so water flows through their gills to breathe. Interestingly, sharks never fully sleep. They rest one half of their brain at a time!



WHAT DO SHARKS EAT?

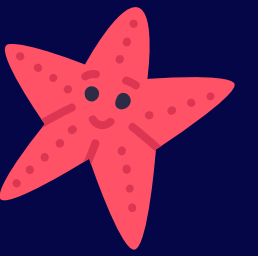
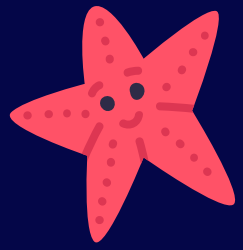
Different sharks eat different things:

- Great White: seals, sea lions, fish
- Whale Shark: plankton and tiny fish (filtered through its gills!)
- Hammerhead: stingrays and squid
- Bull Shark: fish, dolphins, other sharks
- Sharks use their excellent sense of smell and a special organ called the lateral line to detect movement in the water



FUN FACT

Sharks are carnivores. They eat meat!



TYPES OF SHARKS



Great White Shark

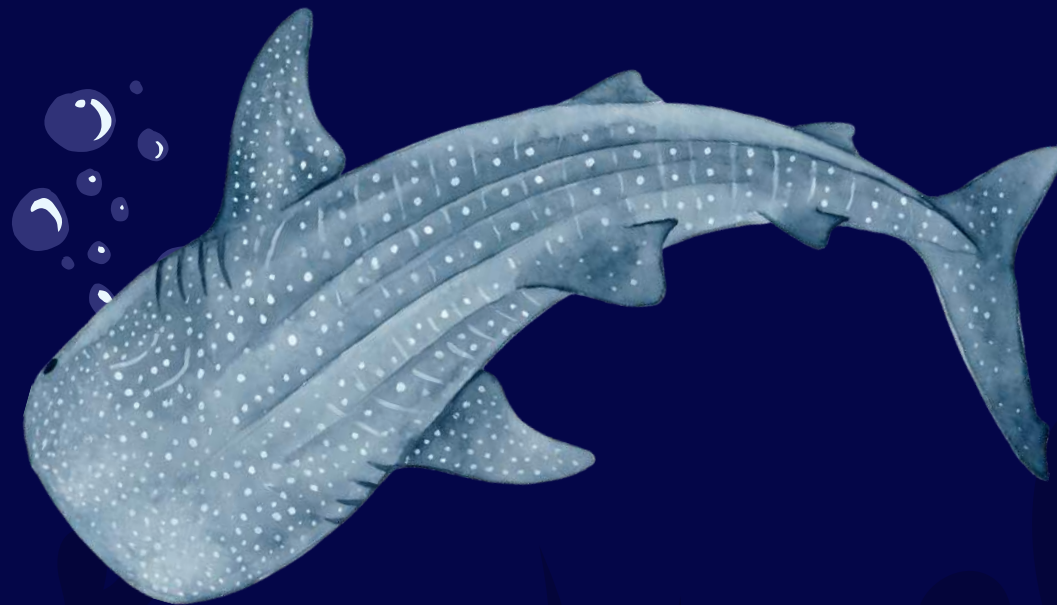
Size: Up to 20 ft

Special feature: most powerful bite

Whale Shark

Size: Up to 40 ft

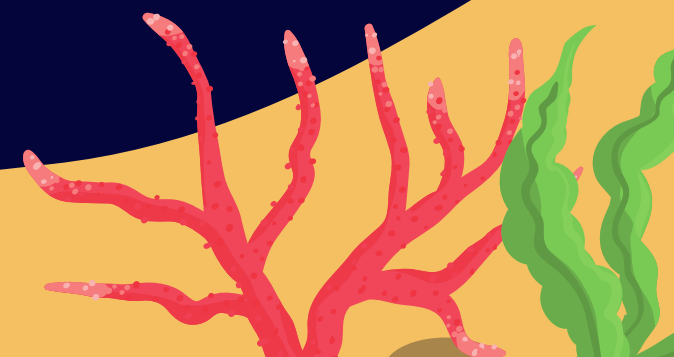
Special feature: largest fish



Hammerhead Shark

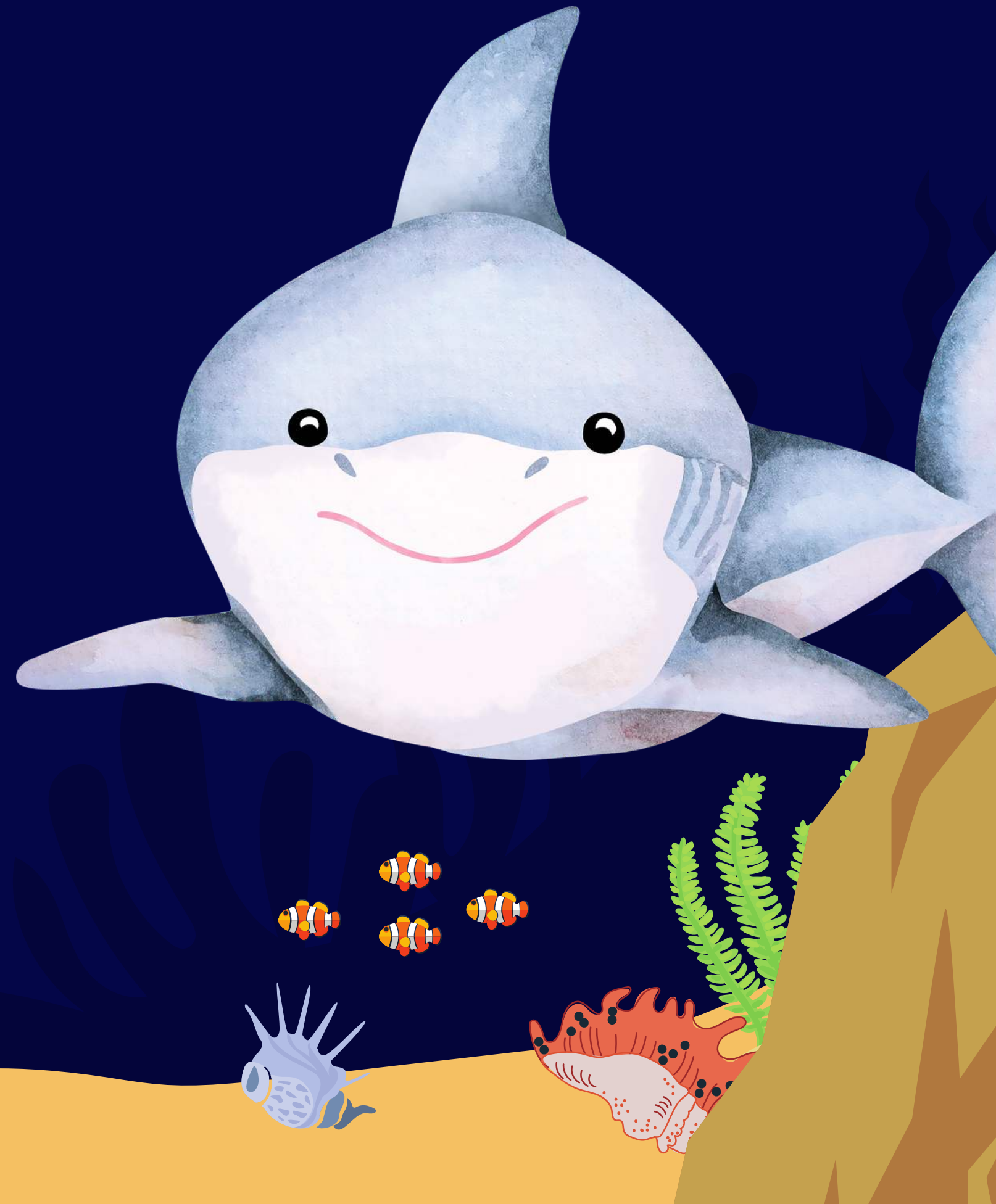
Size: Up to 20 ft

Special feature: wide, flat, T-shape head



WHERE DO SHARKS LIVE?

Sharks are found in every ocean on Earth. From warm tropical waters to icy polar seas. Most prefer shallow coastal waters near coral reefs. However, the bull shark can even swim into freshwater rivers! The Greenland shark lives in freezing Arctic waters and can live for over 400 years. One of the longest-living animals on the planet.



SHARK SENSES

Sharks have 6 senses, one more than humans!

Sight : see well in low light,
some see color

Hearing: can hear low sounds from
miles away

Smell: up to 10,000 times stronger
than a human's

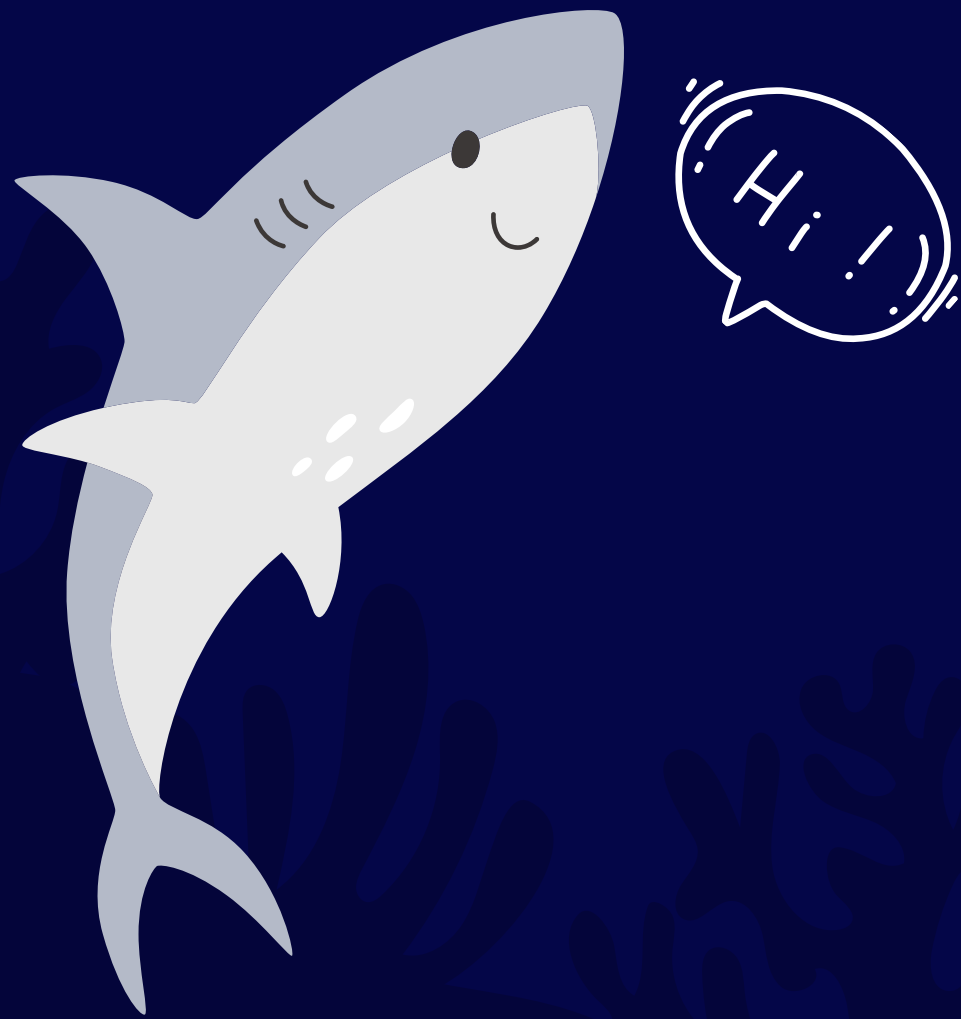


Electroreception: can detect the tiny
electrical signals made by other
animals' heartbeats through special
organs called ampullae of Lorenzini

Taste: use their mouth to "test"
objects

Touch: feel vibrations through the
lateral line along their body

BABY SHARKS

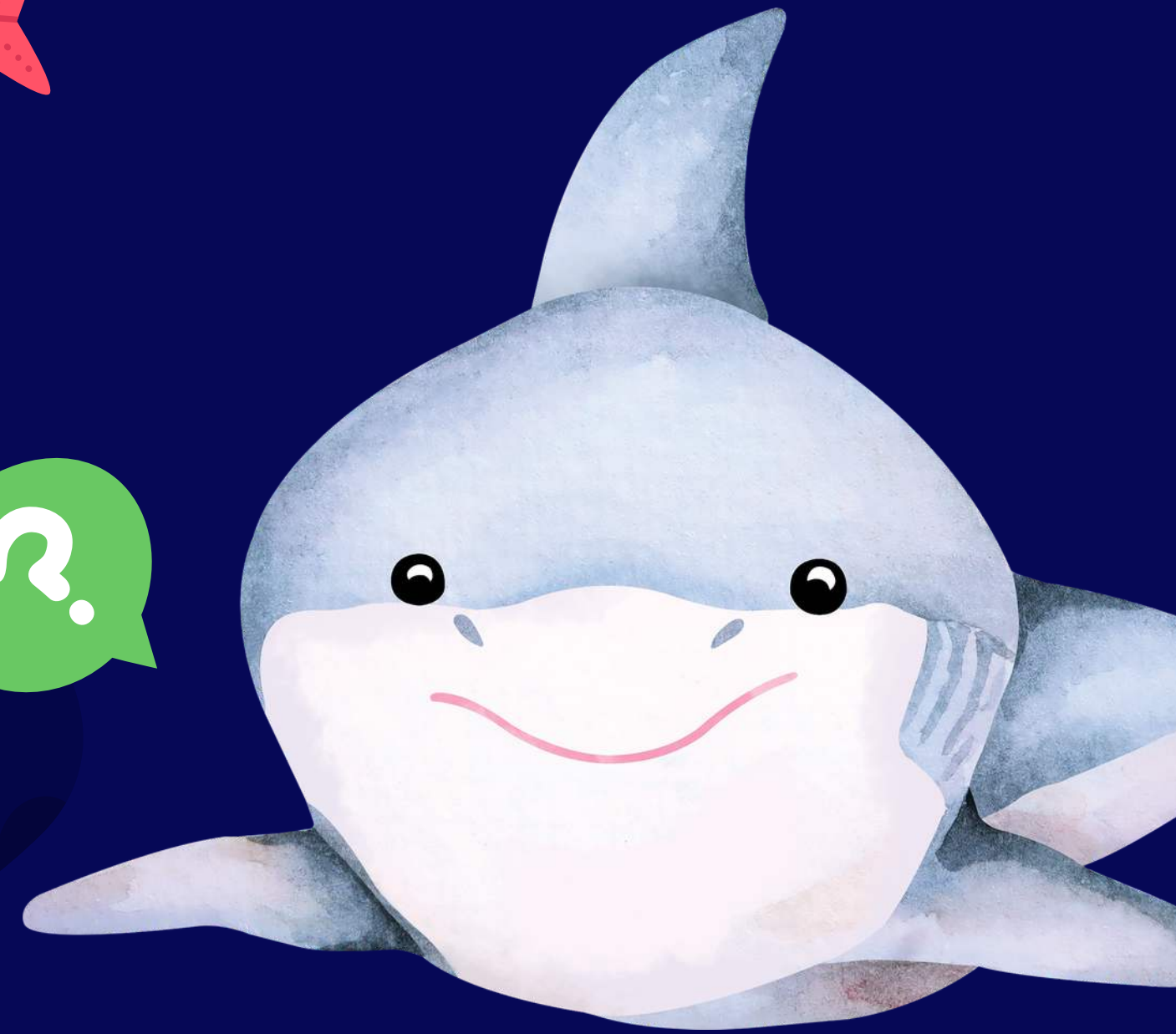
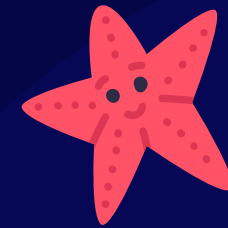
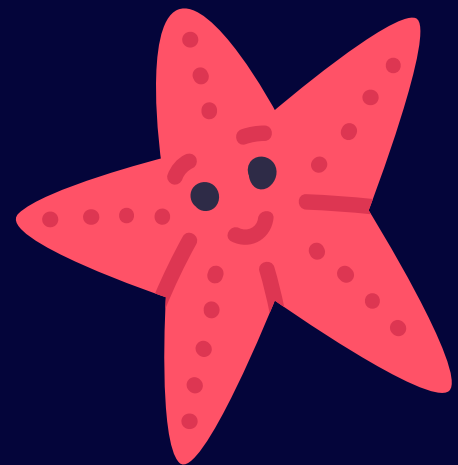


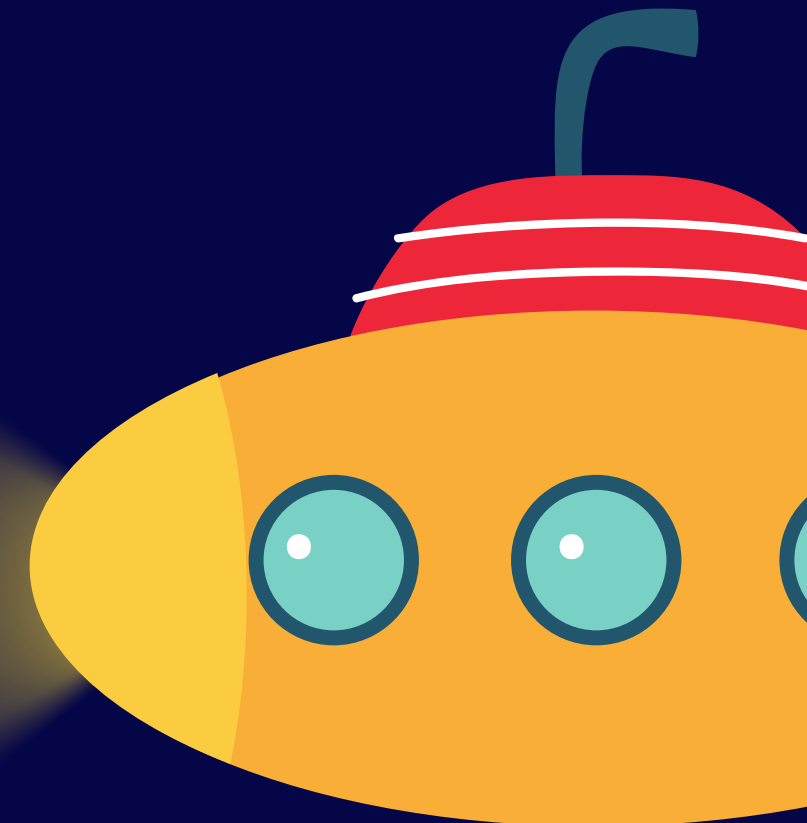
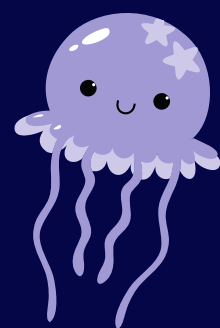
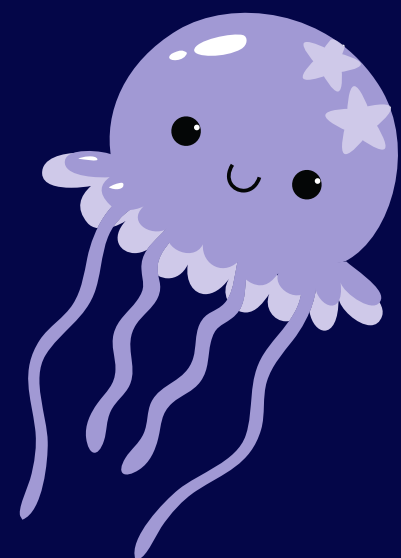
Baby sharks are called pups

- Shark pups are born in 3 different ways depending on the species:
 - 01** Egg-laying: eggs are laid on the ocean floor (like the catshark)
 - 02** Live birth: pups are born fully formed (like the great white)
 - 03** Egg inside mom: eggs hatch inside the mother's body (like the whale shark)
- Most pups are born ready. They can swim and hunt immediately
- Mother sharks do not stay to raise their pups

DISCUSSION TIME

"What is the most surprising
thing you learned about sharks
today?"





THANK YOU

