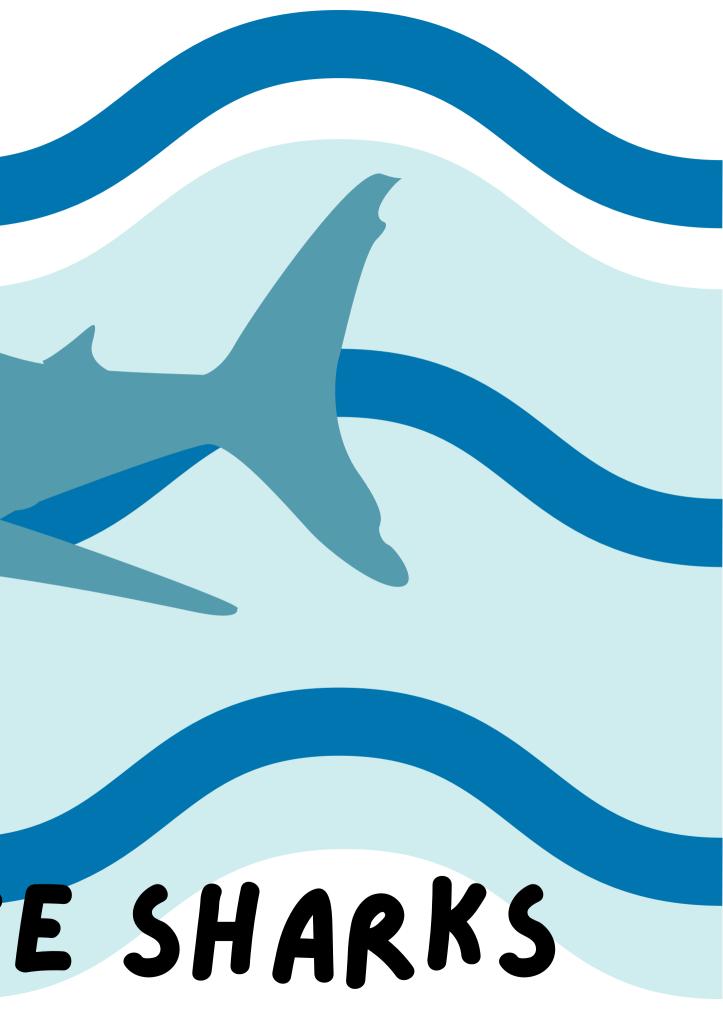
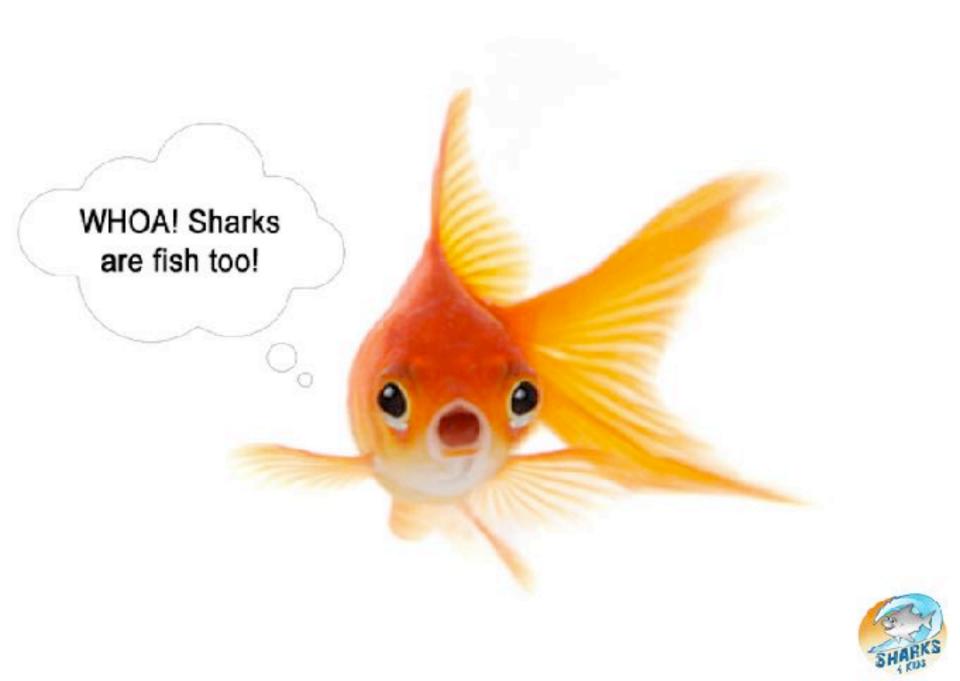
LET'S INVESTIGATE SHARKS



WHAT IS A SHARK?









SHARK FIN CARTILAGE

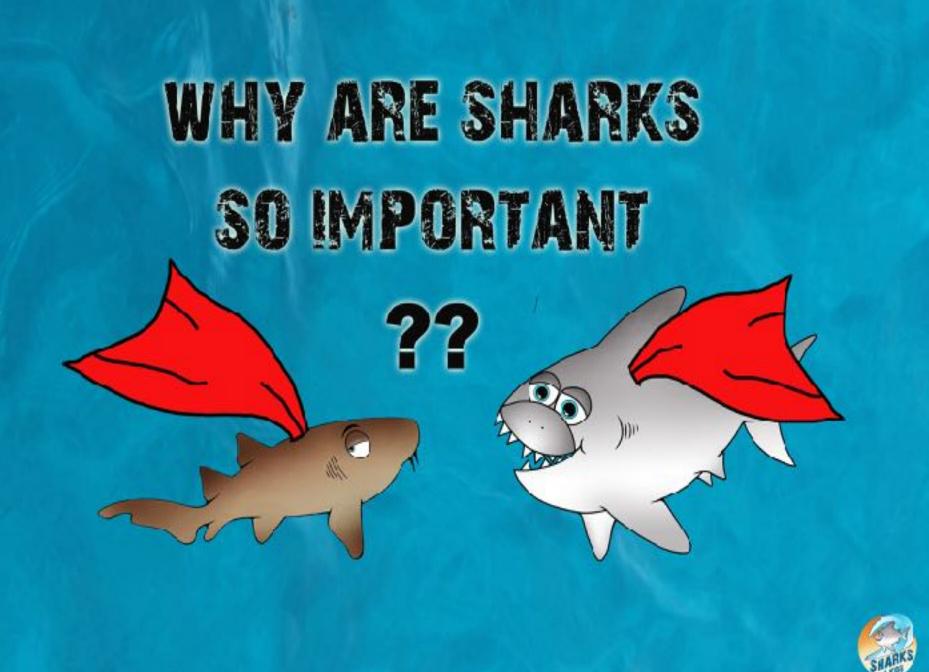
1

FISH BONE

SKIN

HARKS

SCALES



FOOD PYRAMID





FIN TASTIC ADAPTATIONS

Image: Alex Mustard



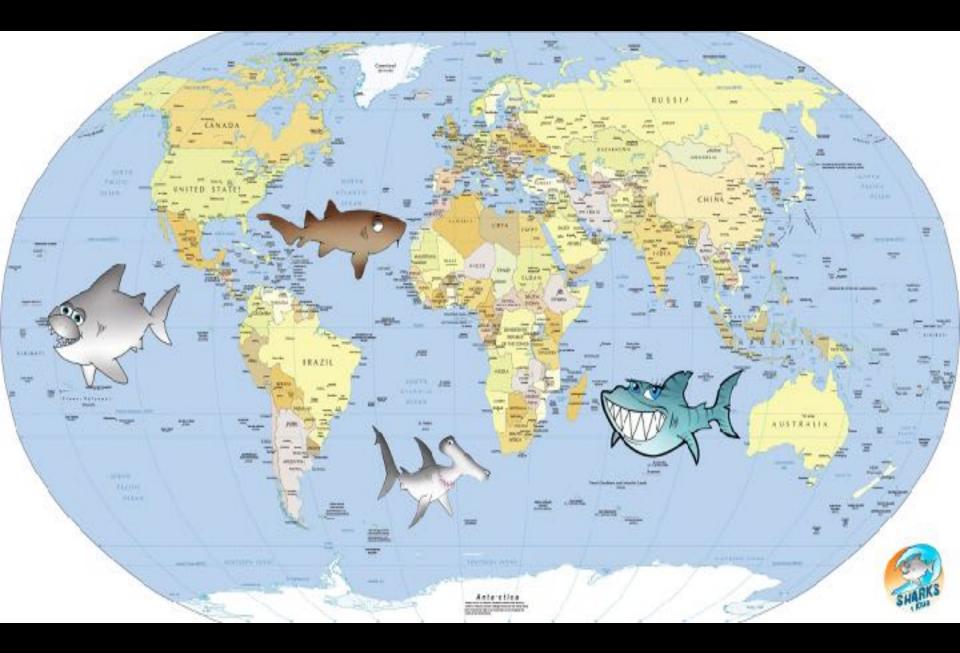




WHERE DO WE FIND









DAWSOME ADAPTATIONS













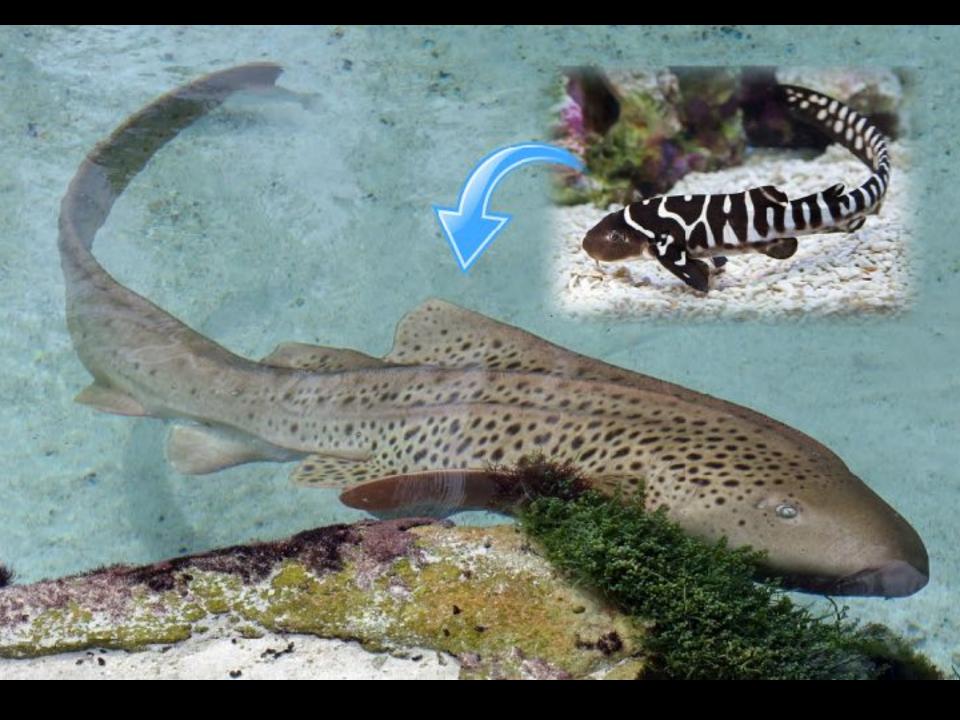




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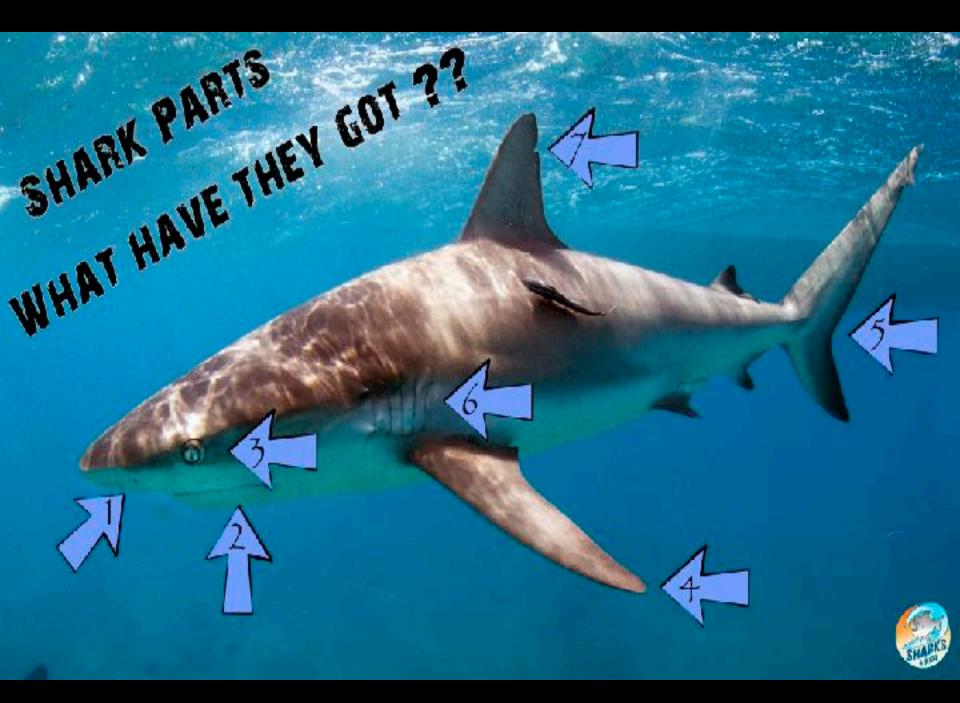








FOSSIL SHARK TEETH













Porbeagle Shark

© 2017 Joshua K. Moyer

Sand Tiger Shark

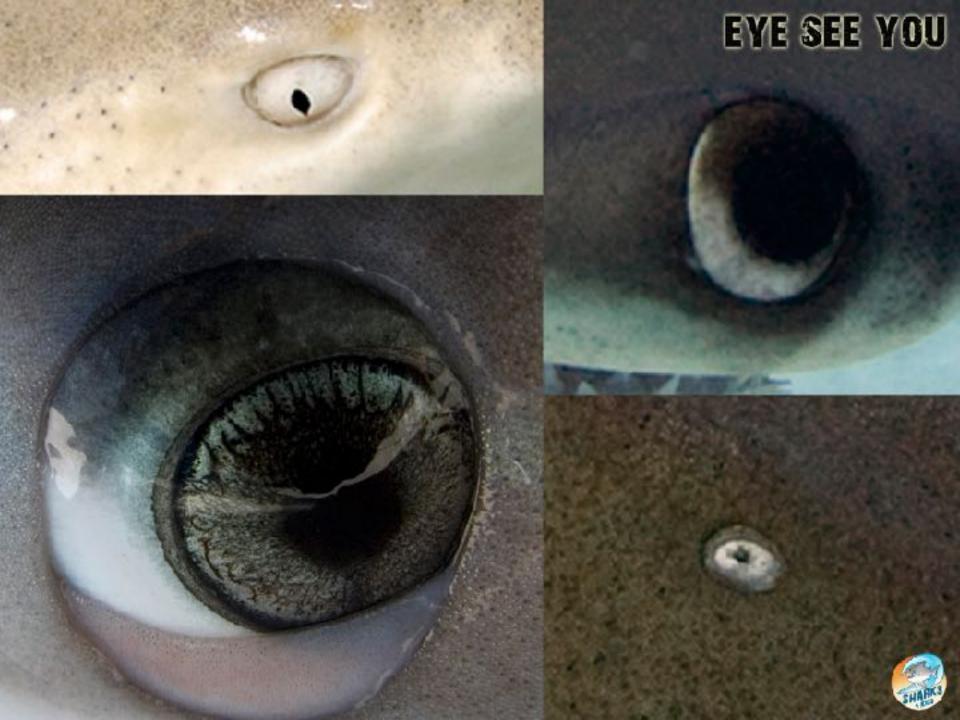






FIN TASTIC ADAPTATIONS

Image: Alex Mustard



THE NICTITATING MEMBRANE













THE DERMAL DENTICLES

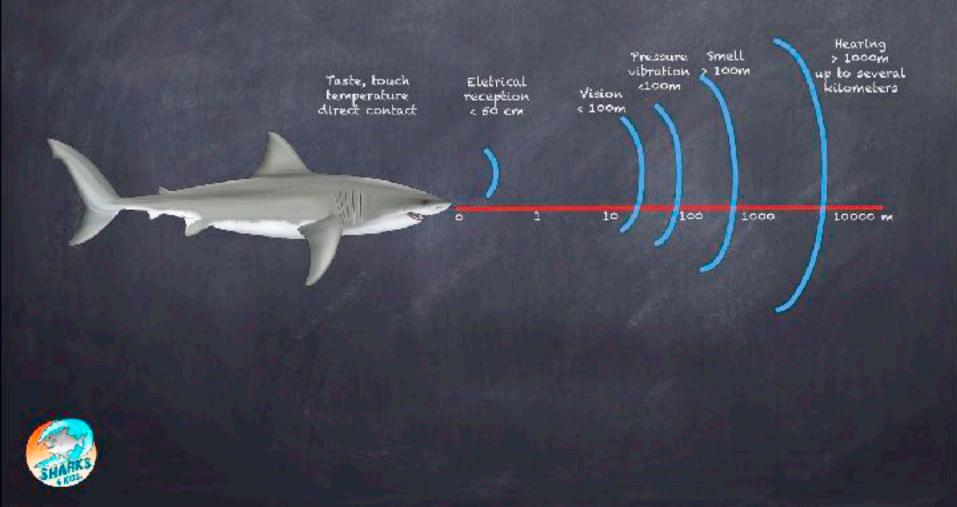


Magnified Image - "Copyright Jeffrey C. Carrier

PRICKLY DOCFISH

Image: Brit Finned

Shark Senses



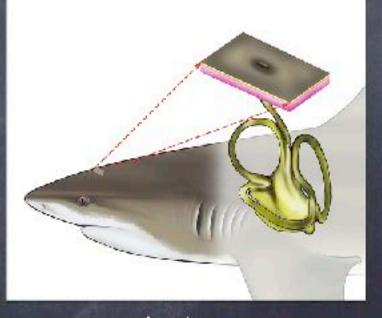
Shark Senses

sight

Great Vision in Low Light. Sharks can dilate their irises. Bony fish can not. Some sharks have a Nictitating membrane. Some sharks can roll their eyes. Protection whilst feeding.

Shark Senses Hearing / sound

Sound travels underwater four times faster than on land. Lower frequencies dissipate slower than higher ones.



Some species can locate their prey over several hundred meters.

An injured or struggling fish gives off a frequency around 20 Hertz.

Shark Senses smell



10,000 times better than humans Nares Look like our nostrils Directionality Can locate prey over hundreds of meters S-shaped pattern

TASTE

Shark Senses Vibrations

.....

The Lateral Line – Detects movements and vibrations in the water. Canals filled with fluid with tiny modified epithelial (hair) cells. Vibrations cause these cells to move and sway within the liquid, Can detect odor plumes to locate prey or a potential mate. Sharks can detect frequencies as low as 25 Hertz.

THE AMPULLAE OF LORENZINI





THANKS FOR SWIMMING BY

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