

SUBJECT: FISHERIES OCEANOGRAPHY

INTERESTING FACTS ABOUT SHARK

Prepared By

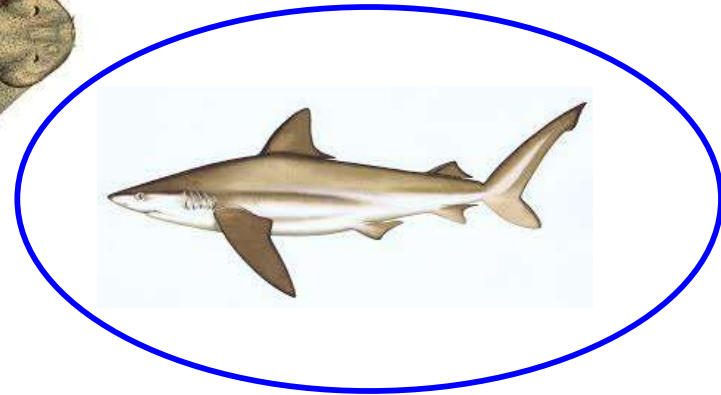
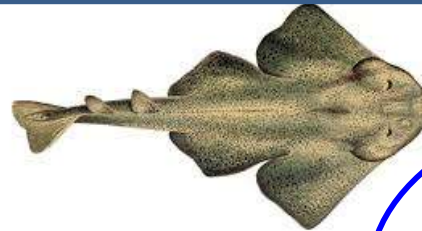
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CLASSIFICATION OF PISCES

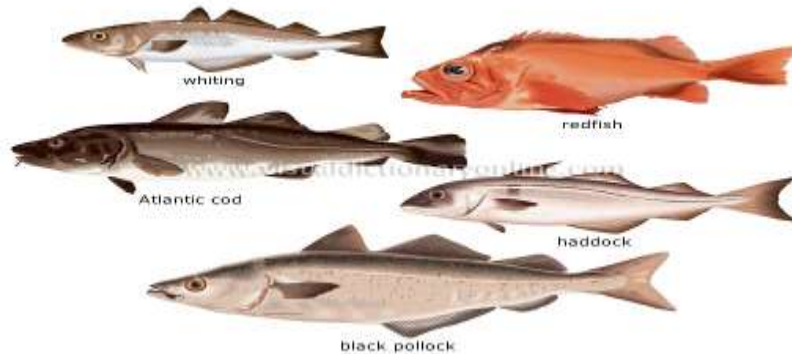
Placodemi



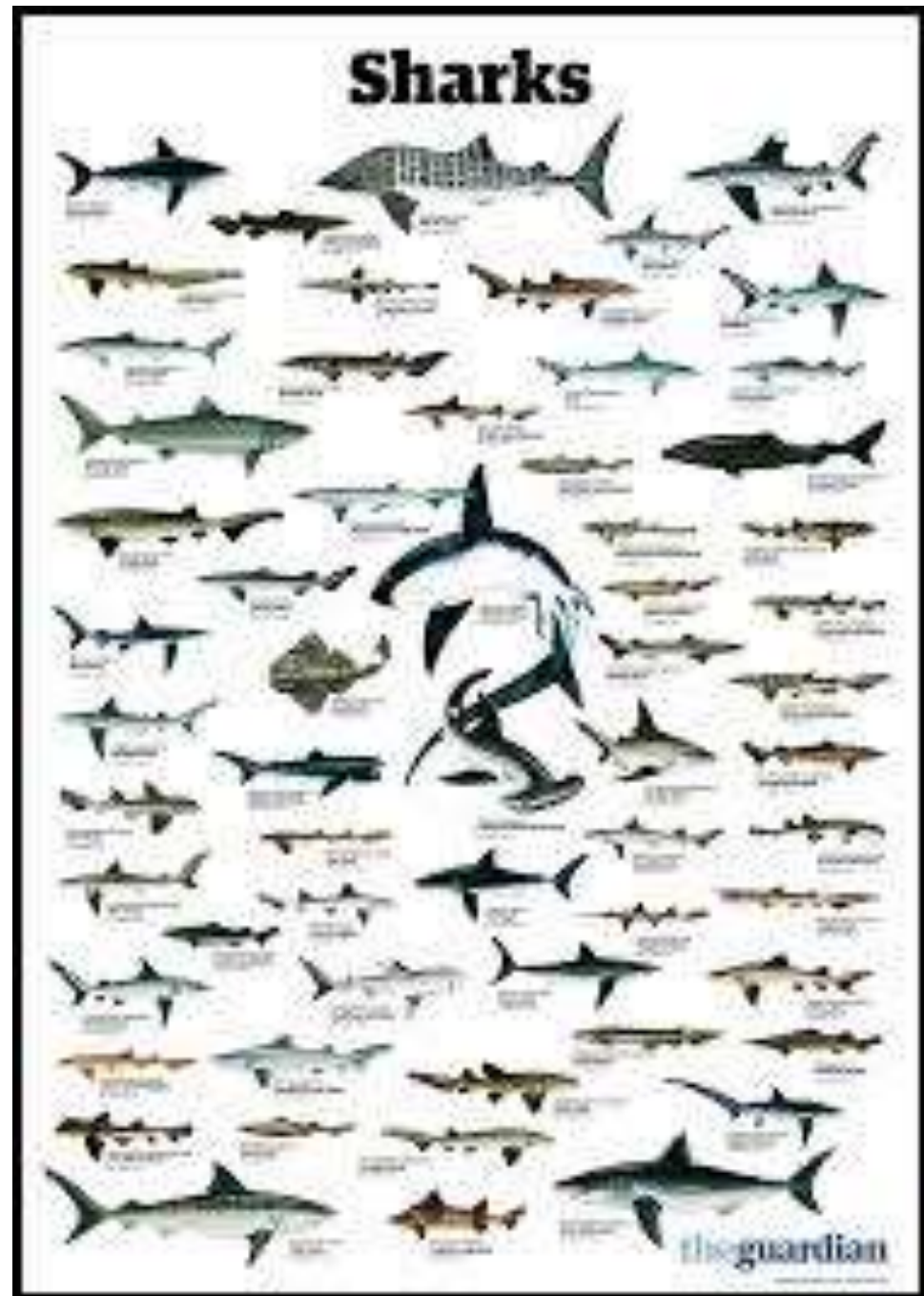
Elasmobranchi (Chondrichthyes)



Osteichthyes



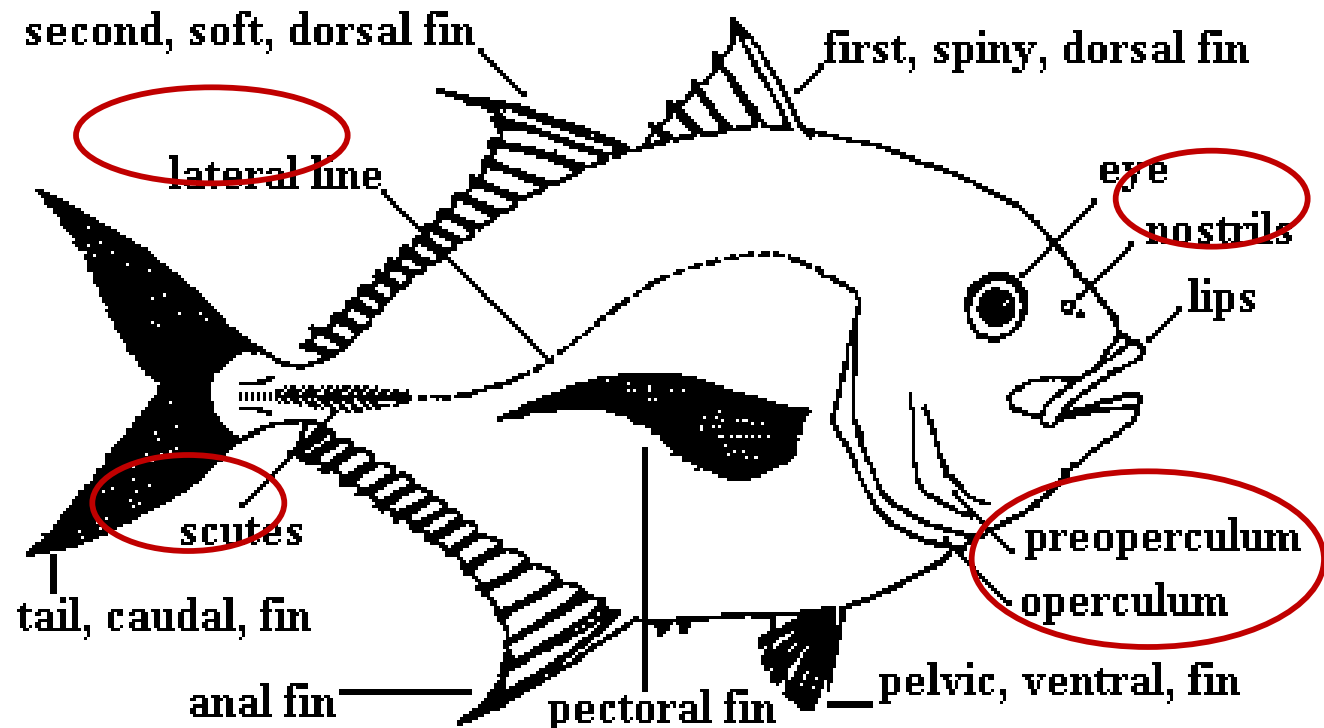
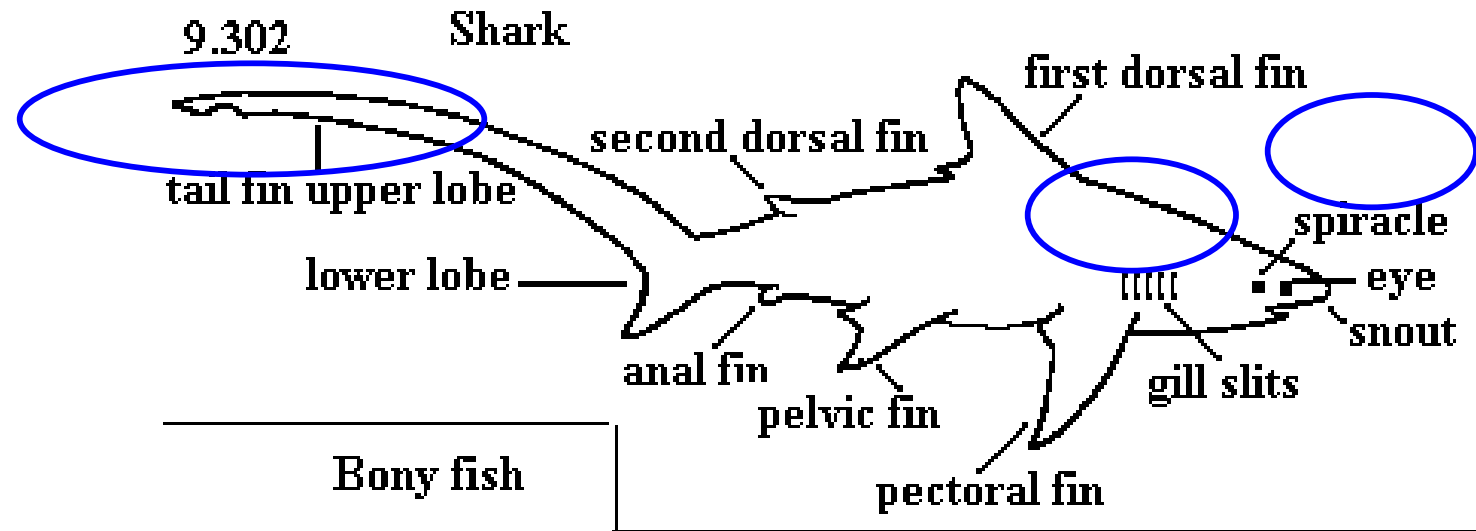
Sharks belong to class Elasmobranchii, in the class Chondrichthyes. Sharks are spread across 513 described species in eight orders. The families and genera within the orders are listed in alphabetical order.



SIZE OF THE SHARK

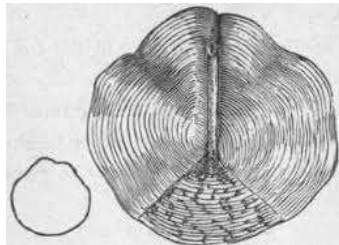
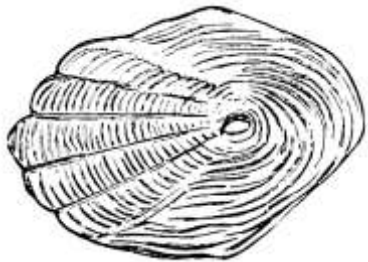


DIFFERENCE BETWEEN SHARK AND OTHER BONY FISHES



SCALES

Bony Fish – Ctenoid, Rhomboid, Cycloid



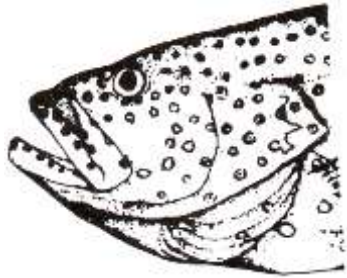
Bony Fish – Placoid scale



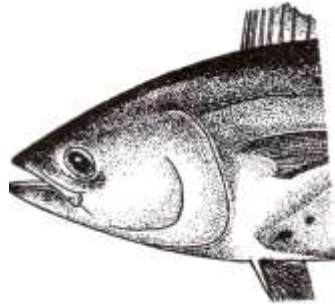
SHAPE OF THE MOUTH

Bony Fish

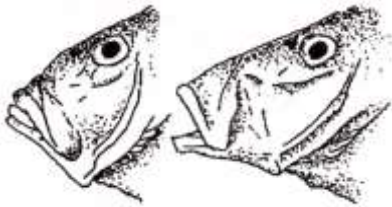
Superior mouth



Terminal mouth



Protruding mouth

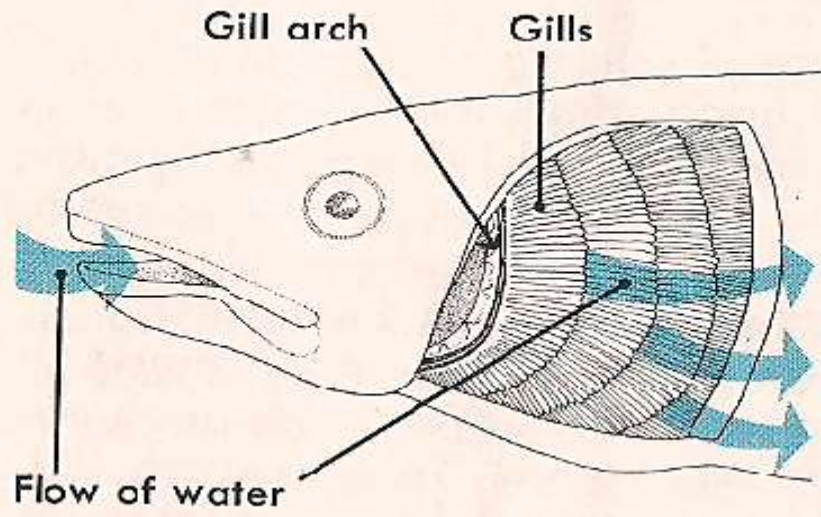


SHARK – Inferior mouth

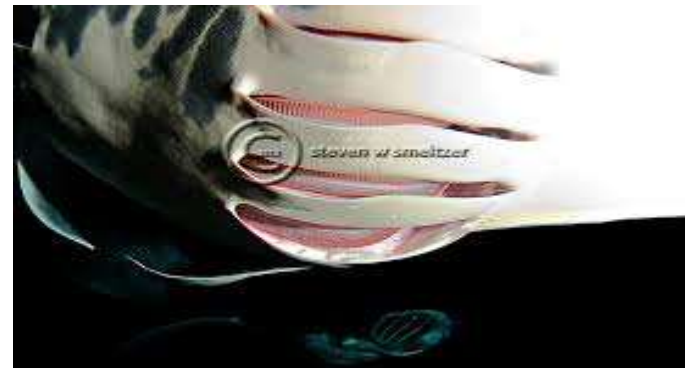
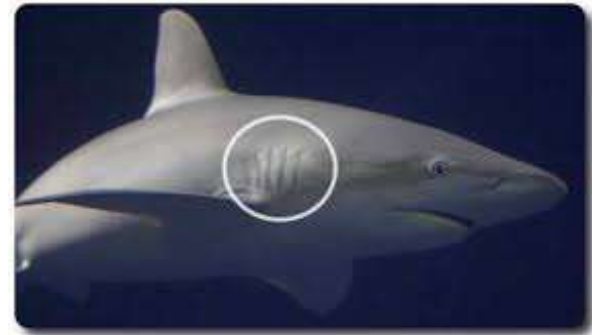


SHAPE OF THE GILLS

Bony Fish - Gills

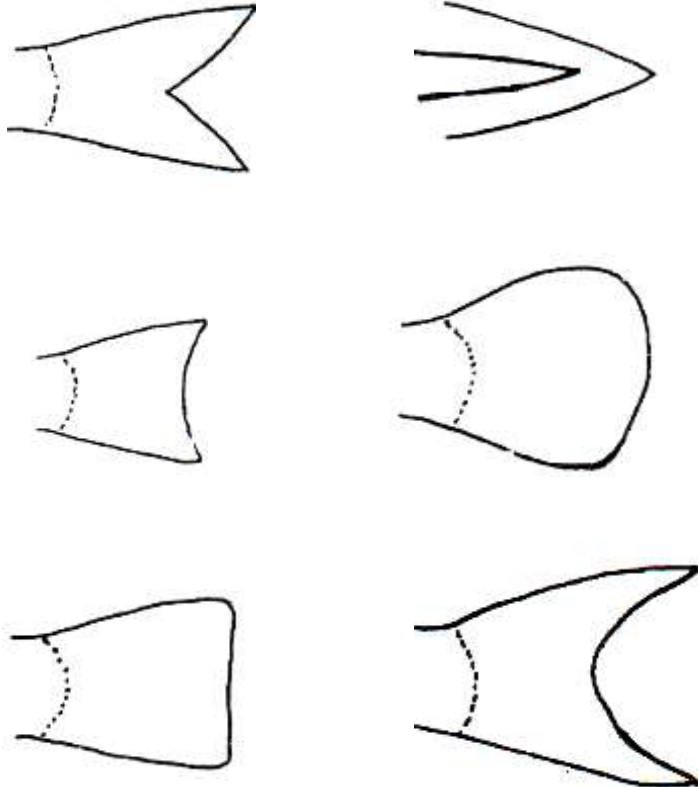


SHARK – Gill Slits

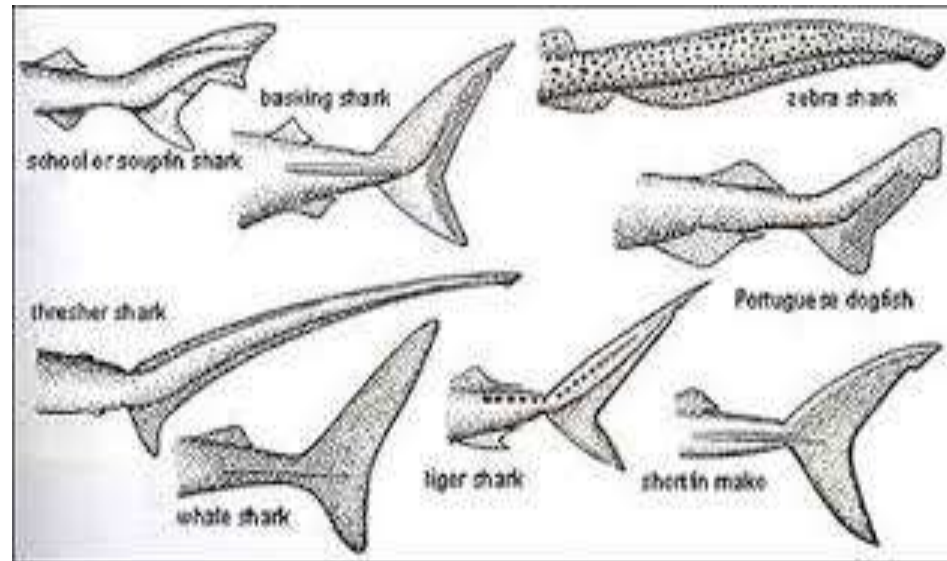
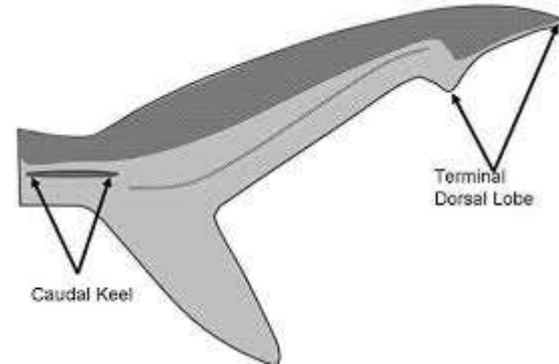


SHAPE OF THE CAUDAL FIN

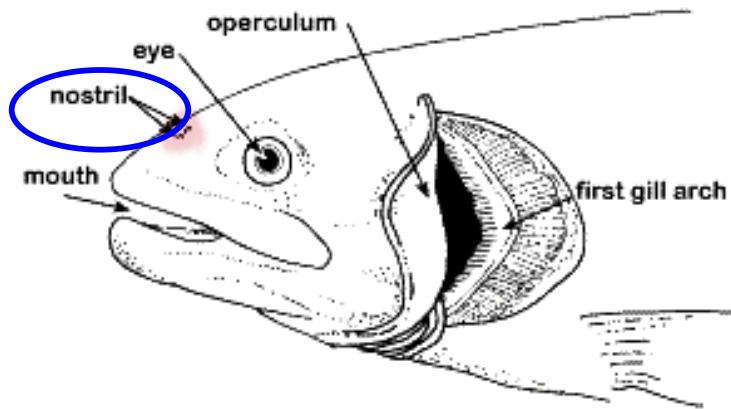
Bony Fish - Caudal fins



SHARK – Caudal fin

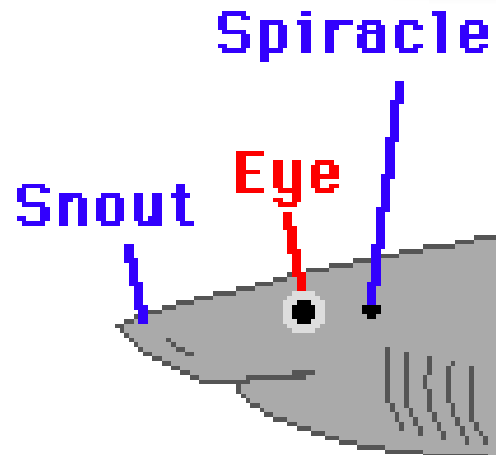


Bony Fish - Nostril

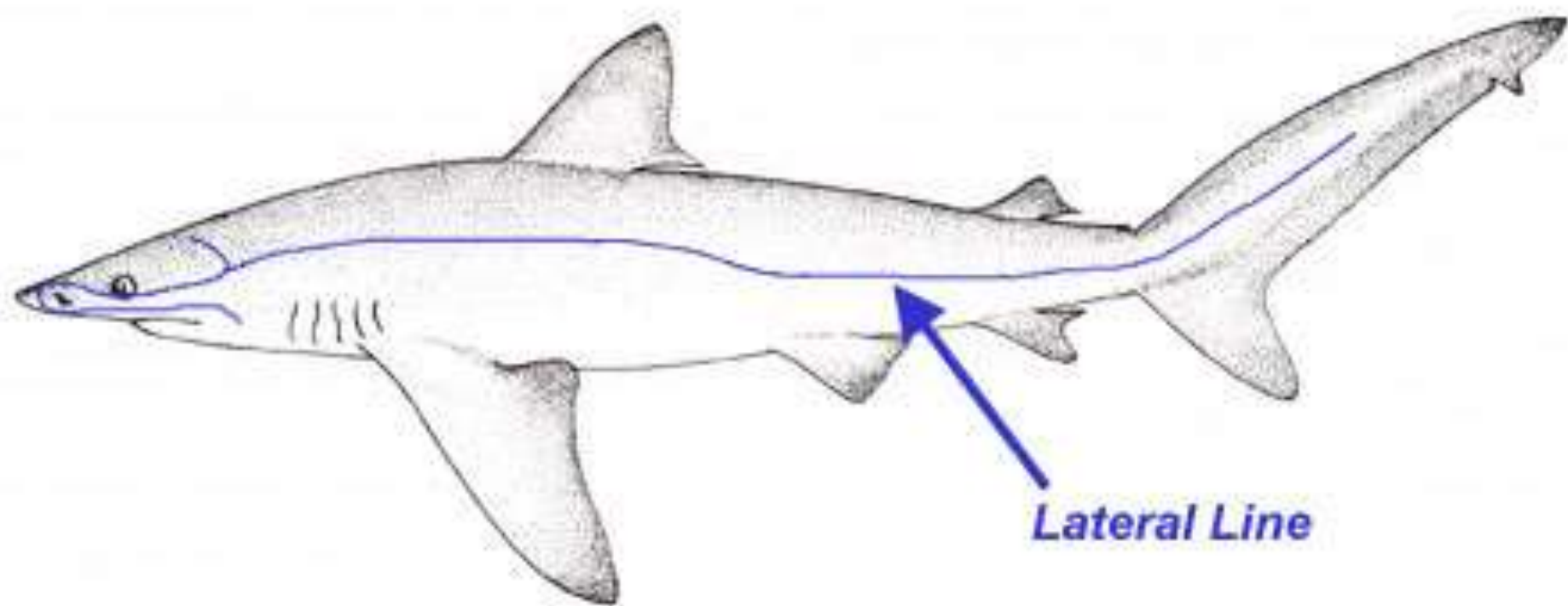


The nostrils of fish do not open into the back of the mouth and are **not used for breathing**. They actually lead into organs of smell which are very sensitive, so that a fish can detect the **presence of food** in the water at considerable distances.

SHARK – Spiracle



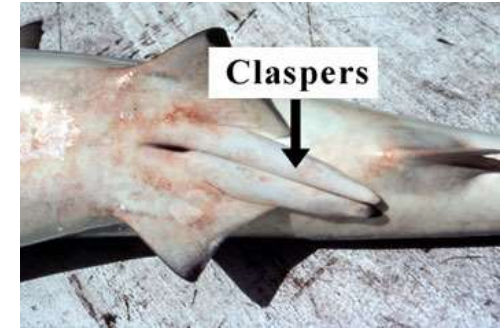
Spiracles are found in some shark and all rays. They are a pair of openings just behind the fish's eyes that allow it to draw **oxygenated water** in from above. The spiracles aid the **fish in breathing** even when it is lying on the ocean bottom or buried in the sand.



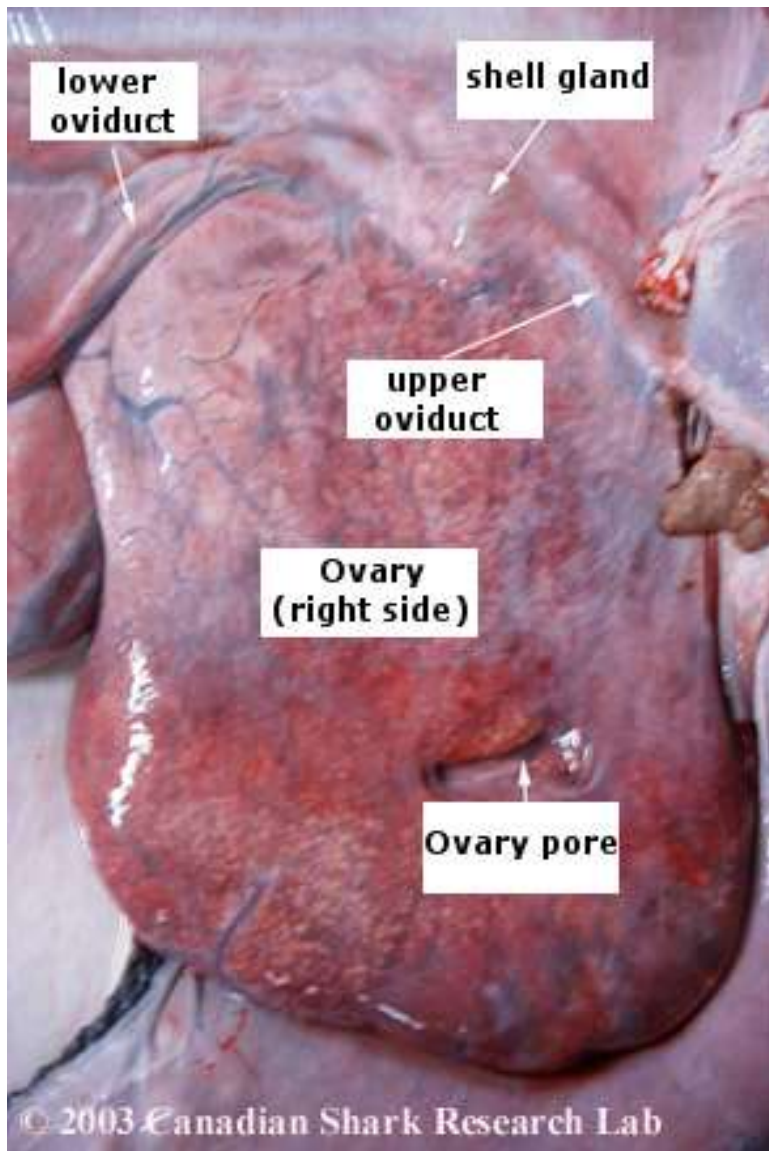
Lateral Line

REPRODUCTIVE BIOLOGY OF SHARK

1. Unlike other fish, sharks spend the first part of their lives in their mother's uterus
2. Shark embryos can be cannibals
3. Like humans, male sharks have paired testes
4. Male sharks have two "claspers" for mating
5. Most female sharks produce only a few eggs
6. Some female sharks can store sperm for up to a year
7. Reproductive cycles for sharks can be as long as two years
8. Sharks can live around 25 years in captivity.









Yolk sac



Shark egg



THANK YOU