

2- Chondrichthyes class:

The general characteristics of cartilaginous fish are;

- a) Cartilage makes up the skeleton
- b) Body is covered with triangular placoid scales
- c) Possess ventral subterminal mouth
- d) Fins are stiff and non-flexible
- e) Absence of swim bladder
- f) Found in marine brackish and fresh water

A) Sharks;

Common name is Great white shark Also known as white Pointer, white Shark, white Death and scientific name is *Carcharodon carcharias*

Kingdom: Animalia

Phylum: Chordata

Subphylum: Vertebrata

Super class: Gnathostomata

Class: Chondrichthyes

Order: Lamniformes

Family: Lamnidae

Genus: *Carcharodon*

Species: *carcharias*



B) Rays;

Common name is common stingray and scientific name is *Dasyatis pastinaca*.

Kingdom: Animalia

Phylum: Chordata

Subphylum: Vertebrata

Super class: Gnathostomata

Class: Chondrichthyes

Order: Myliobatiformes

Family: Dasyatidae

Genus: *Dasyatis*

Species: *pastinaca*



C) Skates;

The New Zealand smooth skate is common name and scientific name is *Dipturus innominatus*.

Kingdom: Animalia

Phylum: Chordata

Subphylum: Vertebrata

Super class: Gnathostomata

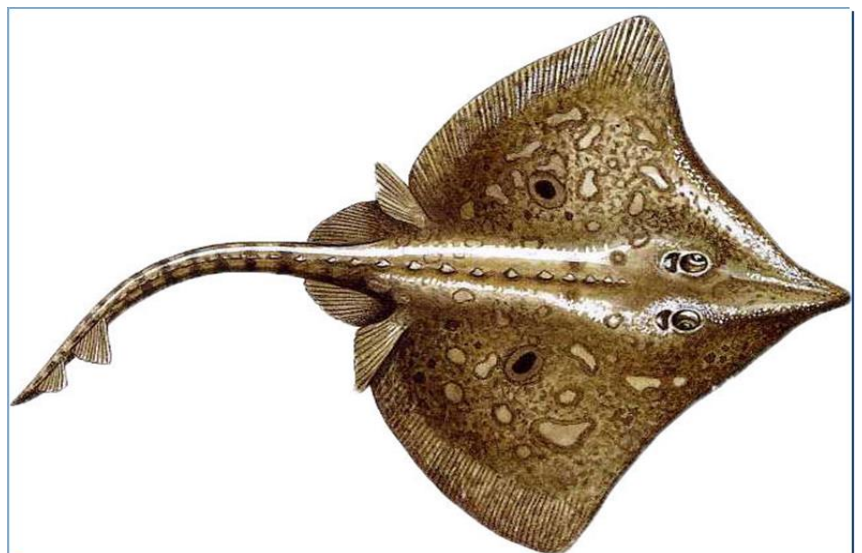
Class: Chondrichthyes

Order: Rajiformes

Family: Rajidae

Genus: *Dipturus*

Species: *innominatus*



D) Chimaeras;

The spotted ratfish is common name and scientific name is *Hydrolagus colliei*

Kingdom: Animalia

Phylum: Chordata

Sub Phylum: Vertebrata

Super class: Gnathostomata

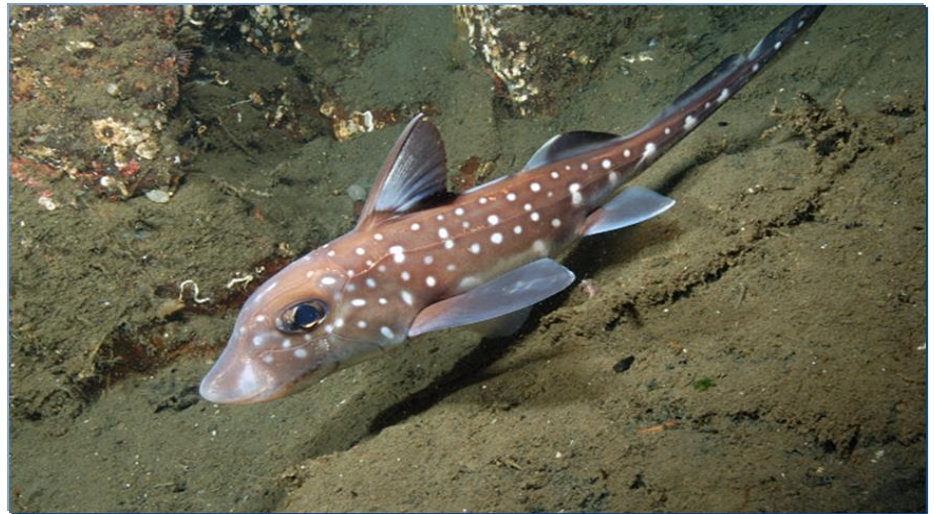
Class: Chondrichthyes

Order: Chimaeriformes

Family: Chimaeridae

Genus: *Hydrolagus*

Species: *colliei*



3-Osteichthyes Class;

The general characteristics of bony fish are;

- Bones make up the skeleton
- The gills are covered with operculum
- Swim bladder is present
- Fins are made up of rays and spines
- This species possess different types of scales

Bony fish has two groups which are; lobe finned group and ray finned group;

A-Lobe finned group

There are two sub classes;

1-Coelacanth

Common name is West Indian Ocean coelacanth and scientific name is *Latimeria chalumnae*.

Kingdom: Animalia

Phylum: Chordata

Sub Phylum: Vertebrata

Super class: Gnathostomata

Class: Osteichthyes

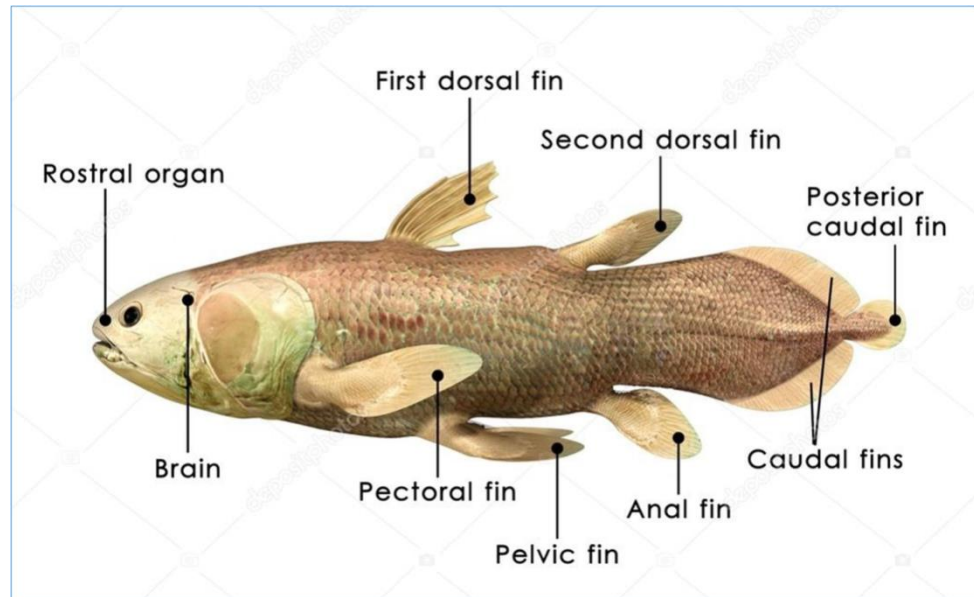
Sub Class: Sarcopterygii

Order: Coelacanthiformes

Family: Latimeriidae

Genus: *Latimeria*

Species: *chalumnae*



2-Lungfish;

Common name is Queensland lungfish, Australian lungfish, Burnett salmon, and barramundi and scientific name is *Neoceratodus forsteri*

Kingdom: Animalia

Phylum: Chordata

Sub Phylum: Vertebrata

Super class: Gnathostomata

Class: Osteichthyes

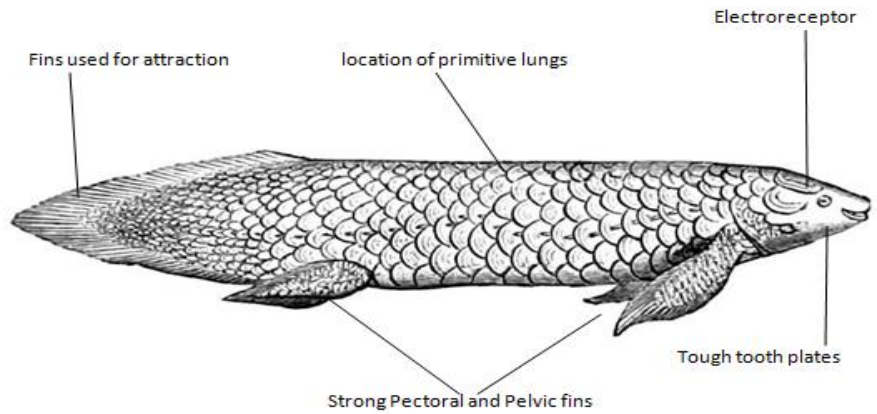
Sub Class: Sarcopterygii

Order: Ceratodontiformes

Family: Ceratodontidae

Genus: *Neoceratodus*

Species: *forsteri*



B-Ray finned group

There are three sub classes;

1-Chondrosteans

-Common name is Atlantic sturgeon and scientific name is *Acipenser oxyrinchus*

Kingdom: Animalia

Phylum: Chordata

Sub Phylum: Vertebrata

Super class: Gnathostomata

Class: Osteichthyes

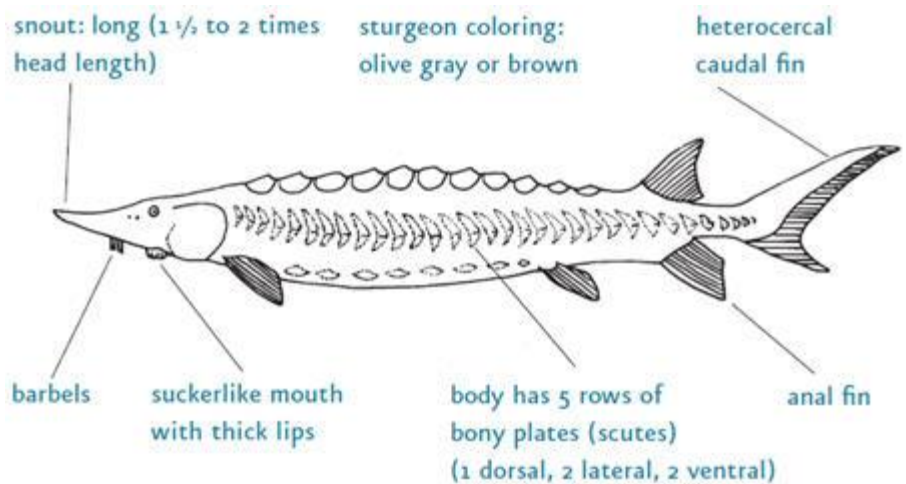
Sub Class: Actinopterygii

Order: Acipenseriformes

Family: Acipenseridae

Genus: *Acipenser*

Species: *oxyrinchus*



2-Holostteans

- Taxonomy (Classification) of Bowfin fish

The Common name is Bowfin fish and scientific name is *Amia calva*

Kingdom: Animalia

Phylum: Chordata

Sub Phylum: Vertebrata

Super class: Gnathostomata

Class: Osteichthyes

Sub Class: Actinopterygii

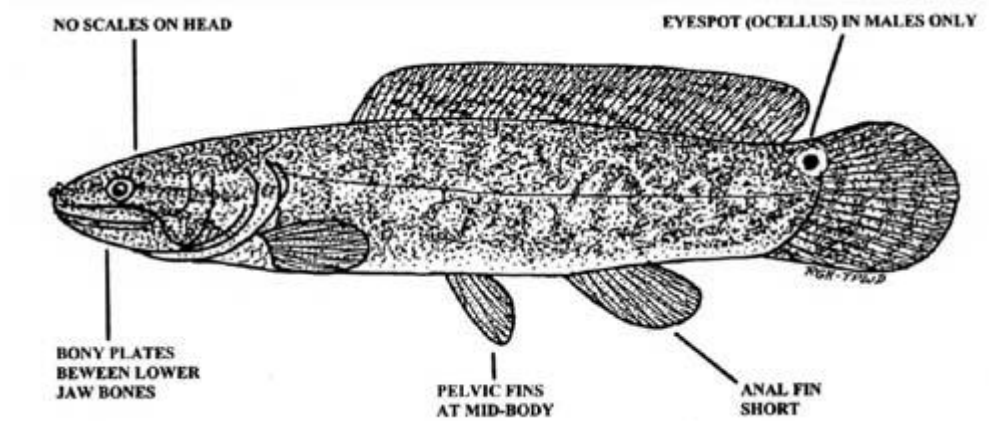
Order: Amiiformes

Family: Amiidae

Subfamily: Amiinae

Genus: *Amia*

Species: *calva*



3-Teleosts

Common name is Atlantic salmon and scientific name is *Salmo salar*

Common name is Dwarf gourami and scientific name is *Trichogaster trichopterus*

Taxonomy (Classification) of common carp

The Common name is common carp and scientific name is *Cyprinus carpio*

Kingdom: Animalia

Phylum: Chordata

Sub Phylum: Vertebrata

Super class: Gnathostomata

Class: Osteichthyes

Sub Class: Actinopterygii

Order: Cypriniformes

Family: Cyprinidae

Genus: *Cyprinus*

Species: *carpio*



Salmo salar



Trichogaster lalius

