

### Phylum Chordata

Lancelets Cephalochordata  
Tunicates Urochordata

### Chondrichthyans

jawed cartilaginous fishes  
sharks and stingrays

### Gnathostomes

vertebrates with a jaw  
like sharks!

### tetrapods

sarcopterygians with limbs  
Need:  
4 limbs with digits  
neck for separate movement of head  
fusion of pelvic girdle to backbone  
ears for airborne sounds

### Dinosauria

Ornithischia bird hipped, herbivores  
Saurischia lizard hipped  
herbivores- sauropods  
carnivores- theropods  
birds  
Aves birds  
forelimbs into wings  
keratinized feathers  
hollow skeletons  
no teeth

### Craniales

chordates with a head  
Have:  
skull, brain, eyes and other sense organs,  
high metabolism  
Example:  
Hagfishes Myxini

### Reptiles

derived characters:  
scales for waterproof  
shelled eggs on land

### lepidosaurs

lizards and snakes

### archosaurs

crocodillians, dinos, bird, turtles

### Vertebrates

craniates with a backbone  
have vertebrae  
Example:  
Lampreys petromyzontida

### Osteichthyans

gnathostomes with bony endoskeletons  
bony fishes!!

### actinopterygii

ray-finned fishes  
yellowfin tuna, seahorse

### Sarcopterygii

lobe-finned fishes  
Lungfish

### Tiktaalik

an ancient sarcopterygian and tetrapod

### Amphibians

simple eggs with the embryo surrounded by  
a jelly coat

### amniotes

tetrapods with amniotic eggs

### Mammalia

mammals amniotes with hair

derived characters:

mammary glands

hair

high endothermy

metabolic  
rate

large brain

different teeth

### main groups

Monotremes platypus, BASAL MAMMAL  
TAXA, still lay eggs

Marsupials dont lay eggs, embryo  
connected to placenta then  
to pouch.. kangaroos!

Eutherians most mammals



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Page 1 of 1.

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