

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
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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 metabolic rate	endothermy
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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