

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

Craniates	
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 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



By [katiefocht25 \(katiefocht\)](#)
cheatography.com/katiefocht/

Published 22nd March, 2022.
 Last updated 23rd March, 2022.
 Page 1 of 1.

Sponsored by [Readable.com](#)
 Measure your website readability!
<https://readable.com>