

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

C

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Page 1 of 1.

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