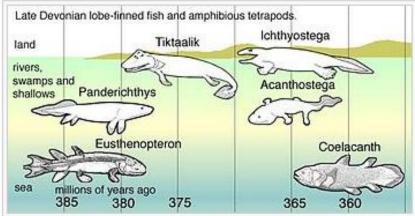
#### **Amphibians**

- Amphibians are the first four limbed vertebrates/tetrapods.
- Most today live their adult lives on land.
- Most live their first stage as fish-like forms using gills for respiration and evolved to air-breathing as they become adults.
- Most evolve lungs, but some use their skins as primary or secondary respiration surfaces.
- Amphibians and cold-blooded and are all fresh-water inhabitants.
- They require moisture, must keep skin moist.
- Earliest appearance of amphibians was in Devonian Period.
- Reproduction involves eggs that are laid in water.
- Most are predators that find food by sight.
- For defense they secretea a mucous that is slippery, distasteful and in some cases poisonous. Their bright distinctive color is a warning of this to predators. The more colorful, the more poisonous.

**Tetrapod** – four limbed vertebrate, mostly terrestrial

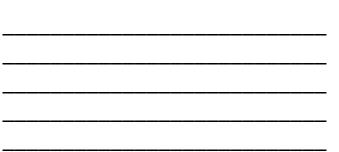
Class Amphibia Genus <i>Acanthostega</i>	
	8 digits on hands

# Amphibians (continued)



In Late Devonian vertebrate speciation, descendants of pelagic lobe-finned fish – like Eusthenopteron – exhibited a sequence of adaptations: \*Panderichthys, suited to muddy shallows; \*Tiktaalik with limb-like fins that could take it onto land; \*Stem-tetrapods in weed-filled swamps, such as: \*\*Acanthostega which had feet with eight digits, \*\*Ichthyostega with limbs. Descendants also included pelagic lobe-finned fish such as coelacanth species.

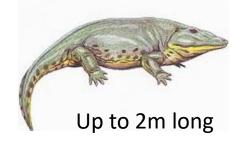
### Class Amphibia 61. Genus *Eryops*

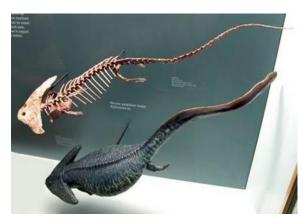




### Class Amphibia 62. Genus *Diplocaulus*





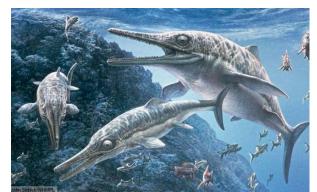


### **TRUE Reptiles (all extinct)**

### Class Reptilia Order Ichthyosuria (Ichthyosaurs)

Large marine, Mesozoic reptiles						





# Class Reptilia Order Squamata Family Mosasauridae (Mosasaurs)

During the last 20 million years of the Cretaceous period with the extinction of ichthyosaurs and the decline of plesiosaurs, mosasaurs became the dominant marine predators.

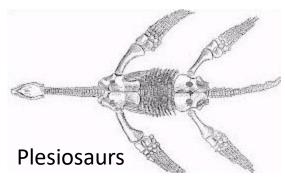


### Class Reptilia Order Plesiosauria

Lived in Jurassic and Cretaceous

Plesiosaurs - long necked marine reptiles Pliosaurs - shorter necked marine reptiles

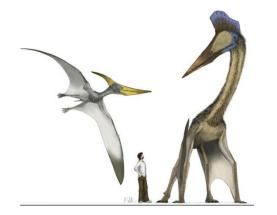


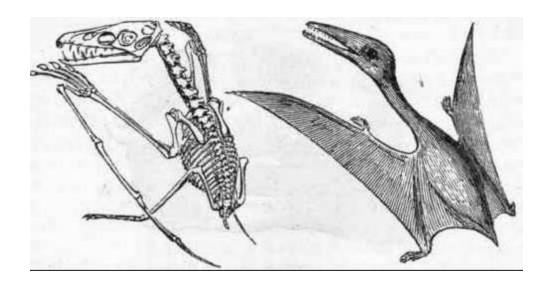




## Flying "Reptiles" Order Pterosuria (Pterosaurs)

Late Triassic to End Cretacous earliest flying vertebrates							
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Note the root of "saur" in these swimming and flying reptiles. Saur is Greek for lizard.

### TRUE Reptiles (BOTH ON THIS PAGE ARE FOR STATES ONLY)

## Class Reptilia Order Crocodilia (Crocodiles) \*

First appeared	in Late Cretaceous
(95 mya)	

## Class Reptilia Order Testudines (turtles) \*

First appeared in Middle Jurassic (170 mya)

