

Class Amphibia has three orders

Anura (_____ and toads)

Urodela (salamanders and
_____)

Apoda (caecilians)

Today's Amphibians Share Five Key Characteristics

1. _____ - an adaptation for living on land
2. Lungs- _____ amphibians have gills, most _____ use lungs
3. Double-loop _____

4. Partially divided heart- the atrium is divided into _____ and right sides, but the _____ is not

5. Cutaneous respiration- supplement _____ intake by taking in air through their _____ skin This limits to maximum size of the _____ because it needs a high skin surface to _____ volume ratio

Lungs- internal, baglike respiratory organ that allows _____ exchange between the air and the blood stream. The larger the _____ area the more oxygen absorbed

Double-loop circulation- the
advantage is that oxygen rich _____
can be pumped to the tissues at a
higher _____

Look at figure 34-13 in book

Heart- the oxygen rich and oxygen poor blood enter _____ and septum keeps in them separate in the _____.

The blood is together in the ventricle though so why does it not completely mix?

Class Reptilia

Live throughout the whole world in a variety of _____ except for the _____ regions

Snakes kill larger numbers of insects and small _____

An alligator is approximately 8 feet long but has a brain the size of a _____ .

Strong, bony skeletons and toes with claws

The move on land easier than amphibians because their legs are position more _____ so they can support more _____ .

Claws allow them to get a good grip on the ground and run _____ for short distances

Ectodermic Metabolism

The cannot _____ their own heat so they absorb it from their surroundings

Reptile's body temperature is close to that of its _____ .

They can move around to regulate temperature

Dry, scaly skin, almost watertight

Their light, flexible _____ overlap
and create an almost watertight _____

Amniotic eggs, almost watertight

An amniotic egg contains both a water
_____ and a _____ supply

The shell is watertight so it does not dry
out

Most reptiles, all birds, and _____
species of mammals _____ by means
of amniotic eggs

Respiration through well-developed lungs

Reptiles are more _____ than
amphibians require more _____ for
metabolism

Lungs-The scaly skin does not allow for gas exchange. Most lungs have _____ called alveoli (increase the surface area) Also they have strong _____ in their rib cage for moving air into and out of _____

Heart

The right and the left _____ are partially divided.

Crocodiles and Alligators have a completely _____ ventricle.

Internal Fertilization

The eggs are fertilized inside the female
Internal fertilization keeps the eggs from

Many reptiles are oviparous (young
_____ from eggs)

The eggs are deposited somewhere and the
environment _____ them

Ovoviviparous- female retains the eggs inside until almost hatching or the eggs actually hatch _____ the female's body

Some snakes and lizards are like this