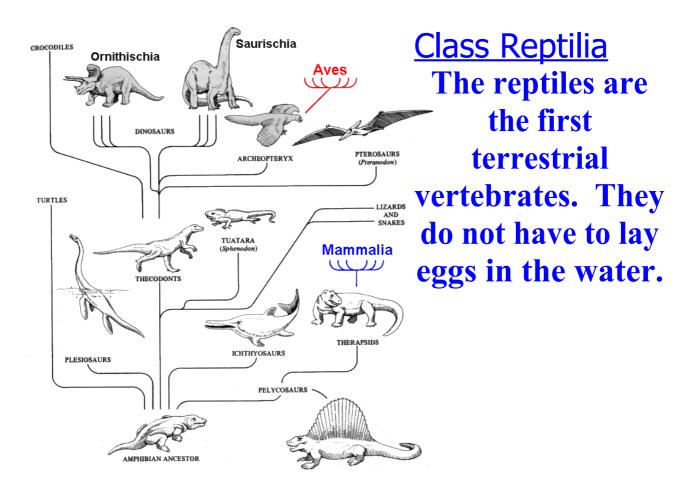
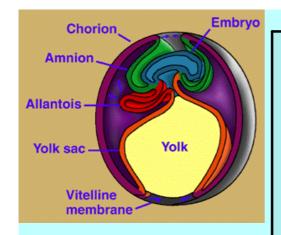
Fish
Read 768-781
Questions 1-6 page 770
Questions 1-5 page 781

Amphibians Pg.789 #1-5

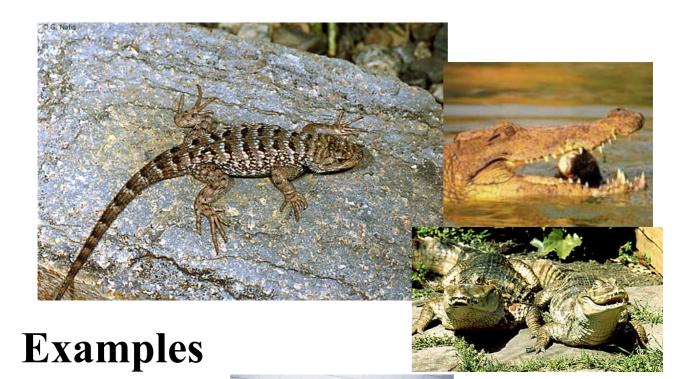
Reptiles & Birds
Read page 796-805
Questions 1-5 page 805

Read page 806-814 Questions 1-5 page 814

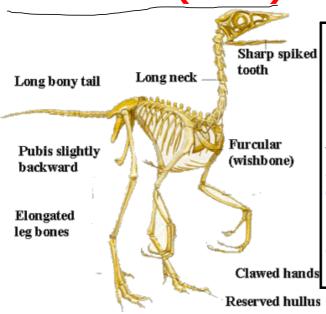




The egg that they lay provides a self-contained habitat and can survive in a dry environment (amniotic). This is a major development. Inside the shell are four membranes, which provide nourishment and protect the developing embryo. They are the amnion, the yolk sac, allentois and the chorion.

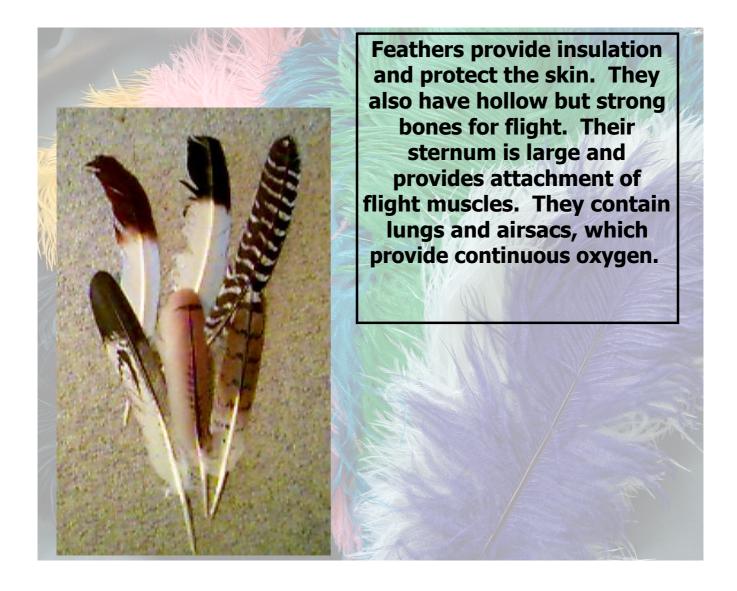


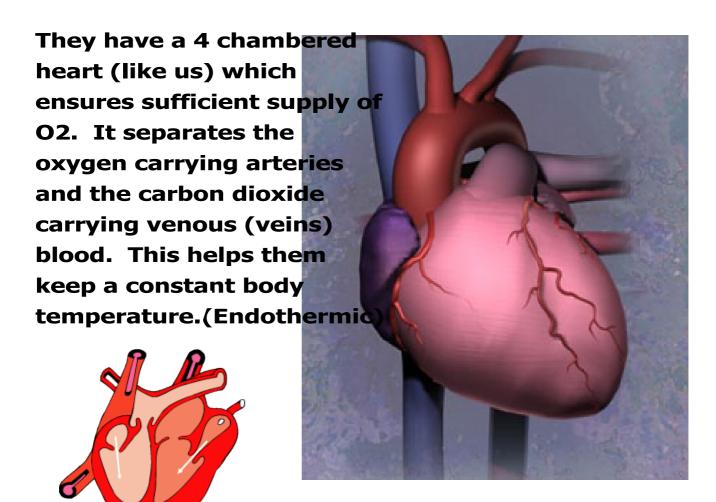
Class Aves (Birds)



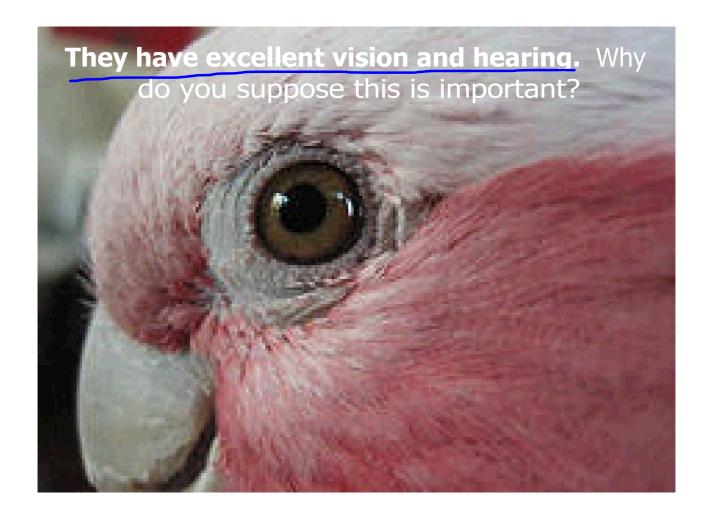
Birds are thought to have evolved from a bipedal (what does this mean?) crocodile-like reptile.

Arhaeopteryx is thought to be the link between birds and reptiles. It has features of both.









Controlling Body Temperature

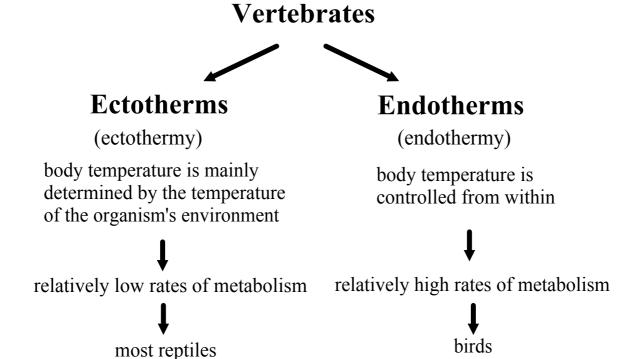
(Page 854)

The controlling of body temperature is important for maintaining homeostasis in vertebrates, particularly in habitats where temperature varies widely with time of day and season.

All of the ways vertebrates control their body temperatures incorporate three important features:

- 1. a source of heat for the body
- 2. a way to conserve that heat
- 3. a method of eliminating excess heat when necessary

fishes amphibians



mammals

Form and Function in Chordates

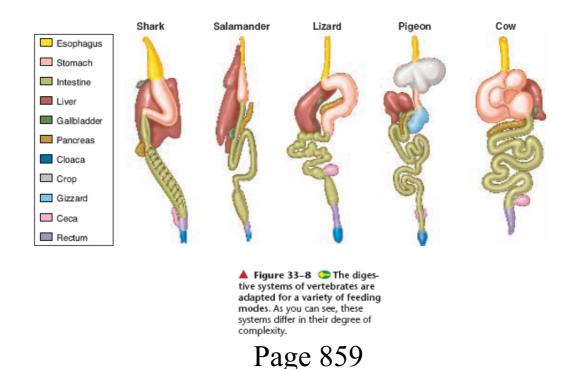
Page 857

Vertebrates have organ systems that exhibit a wider range of complexity than those of nonvertebrates.

Feeding

Feeding and digestion help maintain homestasis by providing the body with a continuing supply of needed nutrients.

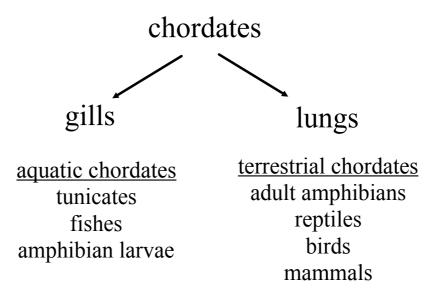
The digestive systems of vertebrates have organs that are well adapted for different feeding habits.



<u>cloaca</u> - a muscular cavity at the end of the large intestine through which digestive wastes, urine and eggs or sperm leave the body

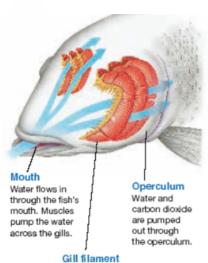
<u>ceca</u> (singular:cecum) - fingerlike pouches where food may be further digested

Respiration



Gills Page 859

▼ Figure 33–9 Fishes and many other aquatic chordates use gills for respiration. Interpreting Graphics Describe the path of water as it flows into and out of the fish.



Each gill contains thousands of flaments that absorb oxygen from the water. month > gills > operculum

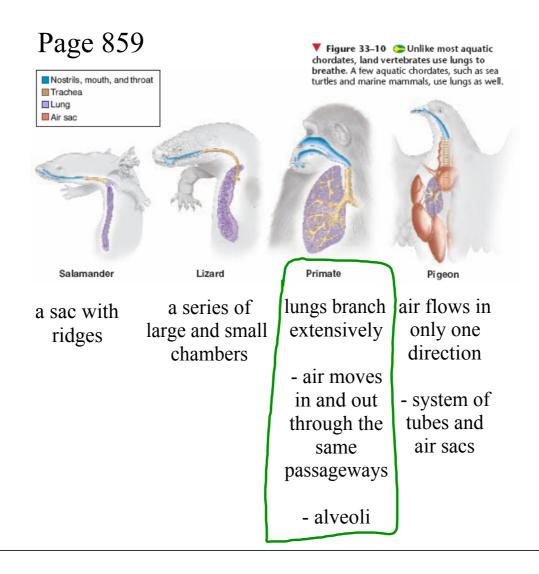
operculum - a protective bony cover

Lungs

Inhaling brings oxygen-rich air from outside the body through the <u>trachea</u> and into the <u>lungs</u>. The oxygen diffuses into the blood inside the lung <u>capillaries</u>. At the same time carbon dioxide diffuses out of the capillaries. Oxygen-poor air is then exhaled.

amphibians ----> mammals

surface area of lungs increases



<u>alveoli</u> (singular: alveolus) - bubble-like structures - provide an enormous surface area for gas exchange