Birds

Most obvious things that distinguishes birds from other animals are their

Feathers Modified scales developed from follicles in the Birds molt and release their feathers, but not usually all at

Two Functions Lift for flight Conserve body ____ Contour Feathers- cover the bird's body and give adult bird's shape Flight feathers found on and

Down Feathers cover young birds and are found ______ adult contour feathers.

Soft, fluffy, good insulation

Contour feather has branches called barbs

Each _____ has barbules with _

The hooks creates a ______ shape in the feather while keeping it flexible.



http://www.nhm.org/birds/guide/pg007.html

Preening- bird pulls its feather through its re-hooking the hooks

Also spreads ____ (from the preen gland) over its feathers.

The oil is for _____ and water proofing.

Feathers may also camouflage the animal and ______ of a mate

Strong ______ skeleton

Bones are thin and hollow

Endothermic Metabolism

They create heat through

Maintain a body temperature of 40 to 42 degrees Celsius (104 to 108 F)

The high temperature is due to the increased ______ used for flight

Completely divided ventricle

Four heart

Oxygen rich and oxygen poor blood are completely _____

Highly efficient lungs

Lungs have a larger surface area than the lungs of _____

There is a limit to how much surface area can help of the lungs also need to be The air also passes over the surface in one

There are two advantages to one direction

 the lungs are exposed to fully air
The flow of blood in the lungs runs in a direction than the air flow

Birds are adapted for Different Ways of Life

There are 28 ______ of birds, but ______ belong to the Passeriformes

There are 5,276 ______ in this order

Birds are adapted by their beaks, legs, and _____

Carnivorous birds have talons and sharp

Ducks have _____feet and flat beaks for water

Finches have a short, thick beak for crushing seeds and ______toes to cling to branches

wings and feet are modified for