

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 _____

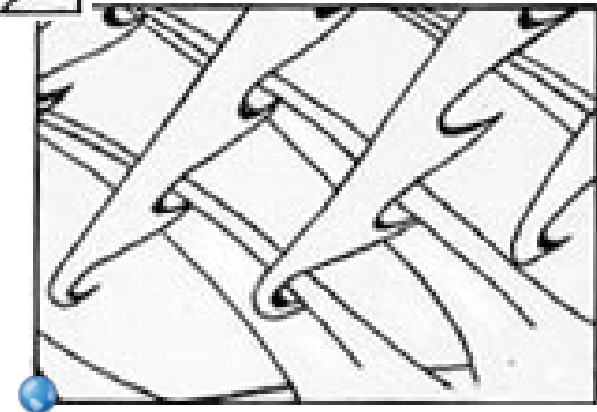
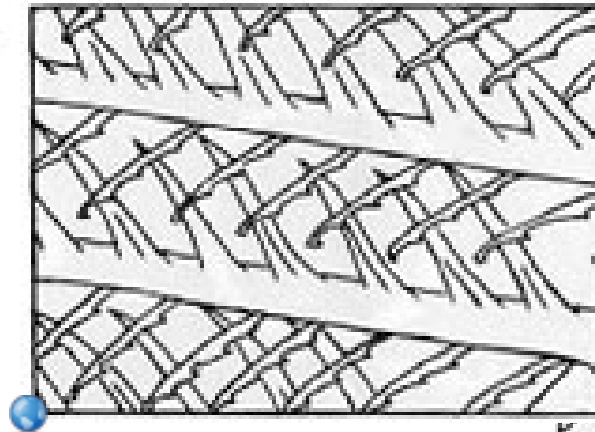
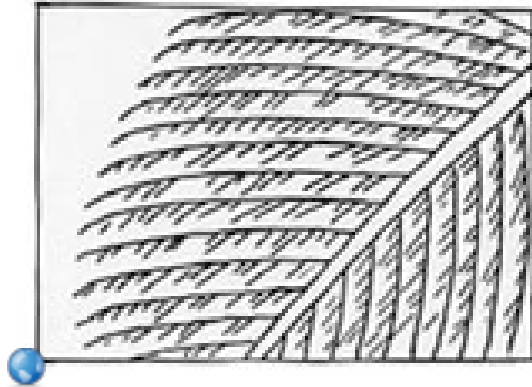
Down Feathers cover young birds and are found _____ adult contour feathers.

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

1. the lungs are exposed to fully
_____ air

2. 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
