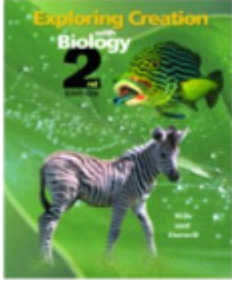


M16 L2 Class Aves

Thursday, March 05, 2009
11:47 AM

VoiceThread	http://voicethread.com/share/178993/
Cmap	

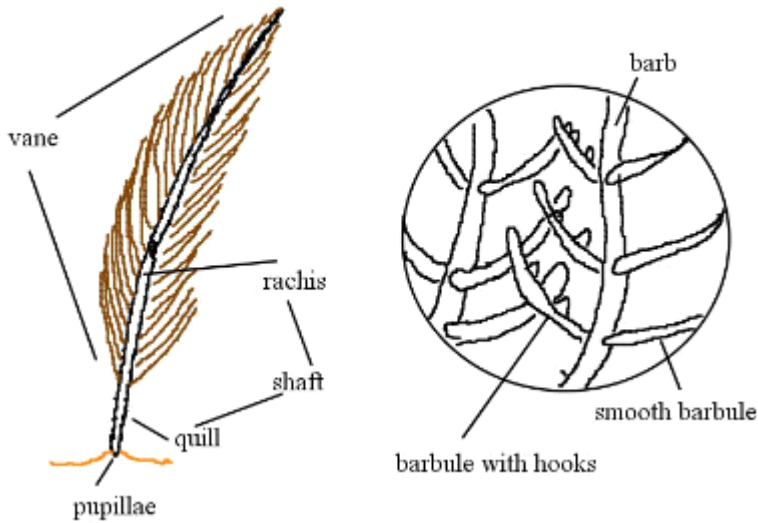
Slide	Details
 <p>Module 16: Reptiles, Birds, and Mammals</p> <p>Lecture 1: Reptiles</p> <p>👉 Lecture 2: Birds</p> <p>Lecture 3: Mammals</p> <p>Labs</p> <p>Interactive Practice</p>	<p>http://birds.audubon.org/christmas-bird-count is the Christmas bird count</p>
<p>👉 Class Aves Characteristics</p> <p>Flight</p> <p>A Few Members of Class Aves</p>	
<p>Endothermic</p> <p>4-chambered heart</p> <p>toothless bill</p> <p>oviparous with lime-containing amniotic egg (lime contains calcium)</p> <p>body covered with feathers</p> <p>porous lightweight bones</p>	

Class Aves Characteristics

👉 Flight

A Few Members of Class Aves

Feathers and wings are even on the flightless birds

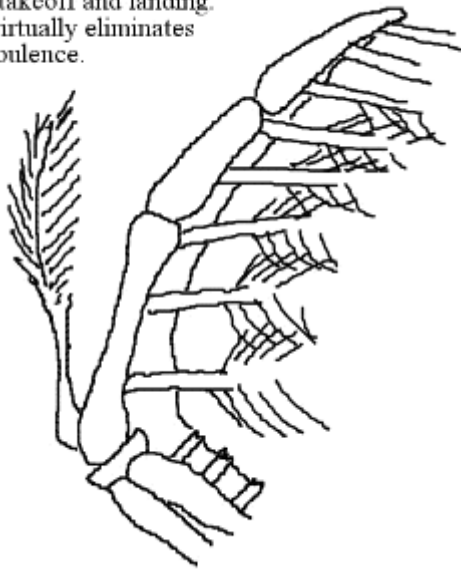


Preen:

- Oil at the base of the tail
- Hooks on the contour feathers but not on the down feathers (insulation)

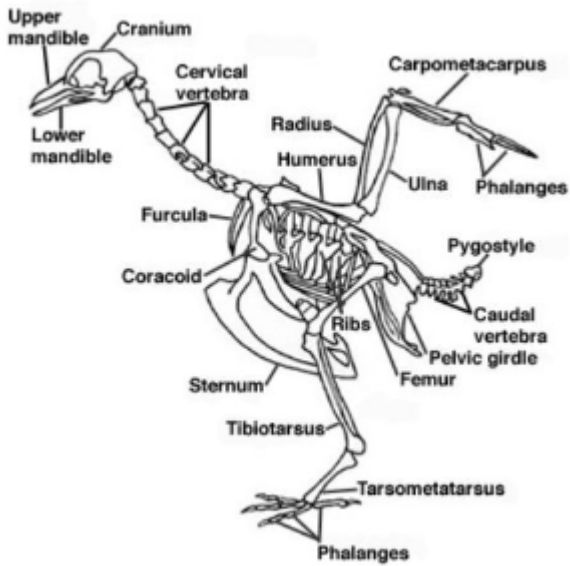
Birds cannot molt, but when feathers are lost, the matching one on the other side will drop out - cool!

this one feather lifts up on takeoff and landing. It virtually eliminates turbulence.



Engineers didn't know what it was for, but they copied the design just to see what would happen - air turbulence was gone with it.

In 1989, a supercomputer could do the physics equations needed to explain why.



Hallow bones

Struts in the bones

Class Aves Characteristics Flight

👉 A Few Members of Class Aves



2 classes of flightless birds

Penguins and ...



ostriches

Falcon



Birds of Prey

Falcon and ...



Eagle

Sharp beak. Powerful



Quail

Game birds

Quail has tender meat because its muscles through the breast has too few arteries to support long flight.

swimming



diving



wading



Water Birds:

Swim, wade, dive

Oil is best for water

Webbed feet

Grabbing beak

syrinx



Syrinx in throat gives strength to singing and repertoire



Humminbirds

Most birds cannot fly backward, but hummingbirds can

8am - <http://www.virtualhomeschoolgroup.com/mod/quiz/view.php?id=922>

9am- <http://www.virtualhomeschoolgroup.com/mod/quiz/view.php?id=11028>

2:30 - <http://www.virtualhomeschoolgroup.com/mod/quiz/view.php?id=14040>

2011/12 - <http://www.virtualhomeschoolgroup.com/mod/quiz/view.php?id=18415>