Ornithology
Review for Quiz 2

Avian characteristics
What is Evolution
Similarities between birds and reptiles
Similarities between modern birds and archaeopteryx
Who were birds ancient ancestors?
Why did feathers evolve?
Hypotheses for the evolution of flight
Convergent evolution
Homologies
Parsimony
Neornithes
Differences between paleognathus and neognathus birds
Examples of paleognathus and neognathus birds
Functions of feathers
Feather structure
Types of feathers
Types of remiges (primary & secondary)
Coloration in feathers (pigment and structural)
What characteristics do Canada warblers base their habitat selection on?
How airfoils work
What Wing Loading & Aspect ratio are and implications for flight
What do birds communicate with their plumage?
The four aerodynamic forces
Effects of varying angle of attack
Role of alula feathers
Components of flapping flight
Which muscle powers the downstroke and which the upstroke in flight?
Slope soaring
Dynamic soaring
Implications of high metabolism in birds
Ways of regulating heat loss
How respiration works
Components of the digestive system in birds