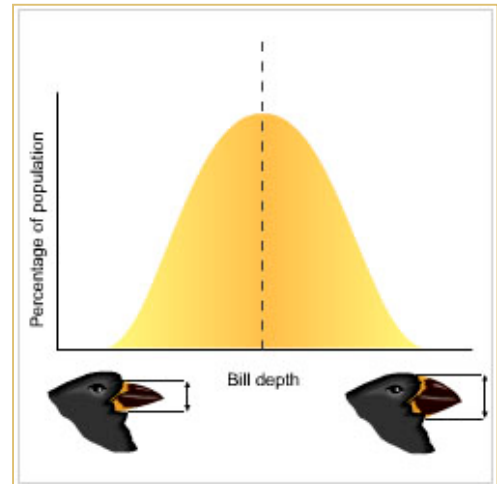


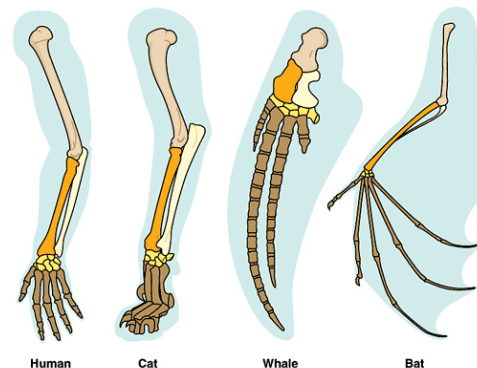
Chapter 20: GENES WITHIN POPULATIONS

- **Allele frequency**
- **Artificial selection**
- **Assortative mating**
- **Bottleneck effect**
- **Directional selection**
- **Disassortative mating**
- **Disruptive selection**
- **Evolution**
- **Fitness**
- **Founder effect**
- **Frequency-dependent selection**
- **Gene flow**
- **Genotype frequency**
- **Genetic drift**
- **Hardy-Weinberg equilibrium**
- **Heterozygote advantage**
- **Inheritance of acquired characteristics (Don't forget ... Lamarck was wrong!)**
- **Natural selection**
- **Oscillating selection**
- **Polymorphic**
- **Population genetics**
- **Sexual selection**
- **Stabilizing selection**



Chapter 21: THE EVIDENCE FOR EVOLUTION

- **Absolute dating**
- **Analogous structures**
- **Biogeography**
- **Convergent evolution**
- **Fossils**
- **Half-life**
- **Homologous structures**
- **Industrial melanism**
- **Relative dating**
- **Vestigial structure**



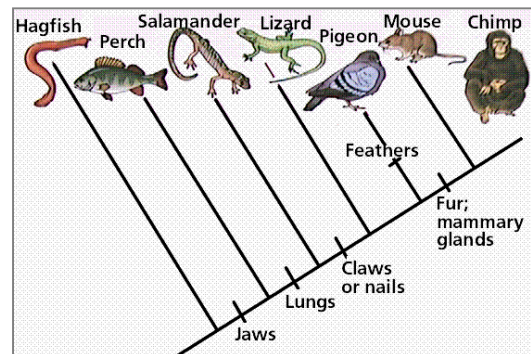
Chapter 22: THE ORIGIN OF SPECIES

- Adaptive radiation
- Allopatric speciation
- Allopolyploidy
- Autopolyploidy
- Behavioral isolation
- Biological species concept
- Character displacement
- Cladogenesis
- Ecological isolation
- Gene pools
- Geographic isolation
- Gradualism
- Hybridization
- Key innovation
- Mass extinction
- Mass extinction
- Mechanical isolation
- Pheromones
- Polyploidy
- Postzygotic isolating mechanism
- Prezygotic isolating mechanism
- Punctuated equilibrium
- Reinforcement
- Reproductive isolation
- Speciation
- Subspecies
- Sympatric speciation
- Temporal isolation



Chapter 23: SYSTEMATICS and the PHYLOGENETIC REVOLUTION

- Ancestral
- Character states
- Clade
- Cladistics
- Cladogram
- Classification
- Derived
- Homoplasy
- Molecular clock
- Monophyletic group
- Outgroup
- Outgroup comparison
- Paraphyletic group
- Polyphyletic group
- Phylogenetic species concept (PSC)
- Phylogeny
- Plesiomorphies
- Polarize
- Principle of parsimony
- Shared derived characters
- Species richness
- Sympleiomorphies
- Synapomorphy
- Systematics



Chapter 24: GENOME EVOLUTION

- **Allopolyploids**
- **Aneuploidy**
- *Arabidopsis thaliana*
- **Autopolyploids**
- **Conservation of synteny**
- **Horizontal (lateral) gene transfer (HGT)**
- **Orthologues**
- **Paralogues**
- **Pseudogenes**
- **Transposons (controlling elements)**
- **Vertical gene transfer (VGT)**



Chapter 25: EVOLUTION of DEVELOPMENT

- **Bilateral symmetry**
- **Heterochrony**
- **Homeosis**
- **Homologous structures**
- **Homoplastic (analogous) structures**
- *Hox* (homeobox) genes
- *MADS* box genes
- *Pax6* gene
- **Radial symmetry**
- **Transcription factor (Ex) T box**

