Honors Biology Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
NDHS Per: \_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Evolution and Ecology Study Guide**

**Evolution:**

Biological Definition of Evolution  
Microevolution   
Macroevolution  
Hutton, Lyell, Lamark  
Darwin  
 - Descent with Modification

**Principles and Causes of Natural Selection**

**Evidences of Evolution**- know all and examples  
- calculate simple half life problems

**Causes of Microevolution**- know definitions and examples  
  
Cladograms: know how make and read them

Gradualism vs. Punctuated Equilibrium

Pre-biotic evolution theory – Miller/Urey Experiment

**Ecology**Define Niche   
 Fundamental vs. Realized

Abiotic Factors:  
 Temp, Precip, Climate, Energy Availability (Role of producers and 10% rule)

Biotic Factors:  
 Primary Producers  
 Competition  
 - Competitive Exclusion Principle  
 - Resource Partitioning

Predation  
 Symbiosis: Parasitism, Mutualism, Commensalism

**Classification Process**: Domains, Kingdoms, Taxonomic Keys