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