**Community Ecology**

**Concept 4:** Community Ecology – Analyzing the interactions and relationships within and between species and the effects of environmental factors on species diversity and composition.

**Community Ecology (Ch 54)**

The difference between a fundamental niche and a realized niche

The role of competitive exclusion in interspecific competition

The symbiotic relationships of parasitism, mutualism, and commensalism

The impact of keystone species on community structure

The difference between primary and secondary succession

Review – Define the following!

***Population***

***Community***

***Ecosystem***

***Biome***

***Biosphere***

***Habitat***

***Niche***

What are four factors that may limit the geographic distribution of a species?  Give an example of each of the factors.

Community Ecology…...concerned with interspecific interactions *(relationships between populations of different specie*

**Interspecific Competition** How do the following principles relate to each other?What are some examples?

* Competitive Exclusion
* Resource Partitioning
* Character Displacement
* Fundamental Niche vs Realized Niche

***Competitive exclusion principle (Gause’s principle)***

***Resource Partitioning***

***Character displacement (niche shift)***

***Realized Niche***

**Predation** How do the following principles relate to each other? What are some examples?

* True Predator
* Herbivory
* Parasite
* Parasitoid
* Adaptations
* Cryptic vs. Warning Colouration
* Mullerian vs Batesian Mimicry

***True Predator***

***Herbivore***

***Parasite***

***Parasitoid***

*Adaptations*

**Cryptic colouration**

**Warning colouration**

**Mullerian mimicry**

**Batesian mimicry**

**Symbiosis** How do the following principles relate to each other? What are some examples?

* Mutualism
* Commensalism
* Parasitism

***Mutualism***

***Commensalism***

***Parasitism***

**Coevolution**

**Adaptation**