**9th Grade Biology Standard 1/Objective 1 Study Guide**

*Vocabulary: species, habitat, community, population, ecosystem, ecologist, producers, consumers, decomposers, symbiosis, commensalism, mutualism, parasitism, competition, biodiversity, limiting factor, biotic, abiotic, quantitative, qualitative, variable, evidence, inference*

Food Chain:

 

Food Web:

 

Producer:

Primary Consumer:

 Herbivore:

Secondary Consumer:



 Carnivore:



 Omnivore:

Tertiary Consumer:

Decomposer:



Scavenger:





 *Food Web Activity*

How much energy is passed in every level of a food chain?



How does energy decrease as you move up the energy pyramid?

**Energy Strategies**

Grazing:

Browsing:

Nectar, Fruit, Pollen, Seeds:

Burrowing:

Filter Feeding:

Predation:

Scavenging:

Symbiosis:



 Mutualism:



 Commensalism:



 Parasitism:

Energy Balance:

Other Notes on Energy:





*Energy Used vs. Energy Gained*

What Crops are indigenous to the United States?

What Countries are highest in CO2 emissions? Why? What can we do about it?



 *Crickets! Alternative Protein Source*