**Unit 2 Study Guide**

**For this test, you will need to be able to define the following vocabulary terms**:

Food chain

Food web

Producer

Consumer

Primary and secondary consumer

Tertiary consumer

Carnivore

Herbivore

Omnivore

decomposer

Natural selection

Biome

Photosynthesis

Cell Respiration

Symbiosis

Mutualism

Commensalism

parasitism

**Possible short answer question topics**

**Be prepared to discuss:**

What abiotic factors can be found in an ecosystem

What are biotic factors and how are they dependent on the abiotic factors of

an ecosystem?

What happens to population size and energy available as you move from producers to tertiary consumers in an energy pyramid diagram?

Define and give two examples of a) producer b) consumer c) herbivore a) carnivore e) omnivore f) decomposer

What are primary, secondary, and tertiary consumers?  Give examples and state whether each is an herbivore, carnivore, or omnivore.

Describe each of the following biomes based on their abiotic and biotic factors.

**rain forest**;

**desert**;

**deciduous forest**;

**coniferous forest**;

**arctic**;

**ocean**/**marine**;

What colors of light are absorbed by chlorophyll?  What colors of light are reflected by chlorophyll.  How can blocking the sun lead to extinction of life on earth?

How can we explain the flow of energy through an ecosystem by discussing photosynthesis and cell respiration as reverse processes?

Why are food webs more realistic than food chains for explaining the feeding relationships in ecosystems?

Give an example of each type of symbiotic relationship and describe which benefits, is harmed, or is unaffected in each situation

Mutualism

Commensalism

Parasitism