

## Unit One: Matter and Energy Cycles in Biotic Systems (Ch. 3)

### ***"I can..."***

- \_\_\_\_\_ *classify* organisms as producers, herbivores, omnivores, carnivores, detritivores (decomposers).\*
- \_\_\_\_\_ *create* a food web with at least four trophic levels.
- \_\_\_\_\_ *predict* the impacts of removing organisms from various trophic levels of a food web.
- \_\_\_\_\_ *describe* trends seen in the biomass pyramid, numbers pyramid, and energy pyramid.
- \_\_\_\_\_ *explain* the causes of energy loss at each trophic level.
- \_\_\_\_\_ *compare and contrast* how matter and energy flow through an ecosystem.

### **Essential Vocabulary/Concepts:**

autotroph	secondary/second-level consumer
bioaccumulation	tertiary/third-level consumer
biomass pyramid	trophic level
carnivore	
consumer	
decomposer	
detritivore	
ecological pyramid	
ecosystem	
energy pyramid	
food chain	
food web	
herbivore	
heterotroph	
keystone species	
omnivore	
primary/first-level consumer	
primary productivity	
producer	
pyramid of numbers	
quaternary/fourth-level consumer	
saprophyte	
scavenger	