Name	

Put your answers on a separate sheet – do not try to squeeze your answers on this paper. Review all of your notes and vocabulary words.

- Define ecology.
- Define abiotic and give an example of an abiotic factor.
- Define biotic and give an example of a biotic factor.
- List the 6 levels of organization of ecology. Describe each level.
 - Organisms
 - population
 - o community
 - o ecosystem
 - o biome
 - o biosphere
- Define habitat.
- Define niche. If organisms have overlapping niches, what is a likely outcome of their interaction?
- o What two requirements does an ecosystem have to sustain life?
- o What type of organism is capable of using and storing energy from the sun?
- o How does population size of both predators and prey affect each other?
- recognize that radiant energy from the Sun is transformed into chemical energy through the process of photosynthesis
 - Define photosynthesis
 - Identify the energy transformation occurring during this process: radiant to chemical energy
 - Analyze an image of photosynthesis
- demonstrate and explain the cycling of matter within living systems such as in the decay of biomass in a compost bin
 - o define compost, decay, biomass and cycling of matter
 - explain what happens during the cycling of matter and what product is given off
 - o illustrate the process of decay and cycling of matter
 - o explain the importance of composting
- identify that organic compounds contain carbon and other elements such as hydrogen, oxygen, phosphorus, nitrogen, or sulfur
 - o define organic compounds
 - select organic compounds from a list
 - o differentiate between organic and inorganic compounds

- observe, record, and describe the role of ecological succession such as in a microhabitat of a garden with weeds
 - o define ecological succession, primary succession, secondary succession, pioneer species, climax community
 - o compare primary and secondary succession
 - o identify the types of organisms that are pioneer species in primary and secondary succession
 - o put in order the growth of an ecosystem during ecological succession
 - o What is succession?

0	When organisms colonies new areas (that have never had life) it is called
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0	The first species to populate an area is called the
0	The mature community that is developed after community becomes stable is the
0	When organisms colonize an area that once had life that was wiped out is
	called
0	One of the main differences in secondary succession is that the community already has

- o What is carrying capacity?
- If you had an aquarium, how could you increase the carrying capacity? How could you decrease it?
 - Increase –
 - Decrease –