Unit 7 Ecology Review Biology K/H

- 1. What is the difference between a community, population and organism?
- 2. Describe the following and give an example for EACH.
 - a. decomposers
 - b. omnivores
 - c. producers/autotrophs
 - d. carnivores
 - e. detritivores
 - f. heterotrophs
- 3. What is a trophic level?
- 4. Pyramids draw and label trophic levels with level of consumers
 - a. Energy where does it go and how is it used?
 - b. Numbers how can it not look like a pyramid?
- 5. Why are there more producers than consumers in an energy pyramid?
- 6. What is carrying capacity? Draw a graph that illustrates this.
- 7. What is an ecosystem?
- 8. What is primary succession? What does it look like?
- 9. What is secondary succession? What does it look like?
- 10. What is a climax community?
- 11. A pioneer community?
- 12. Symbiotic relationships define and give an example of each
 - a. Mutualism
 - b. Commensalism
 - c. Parasitism
- 13. What is a nutrient? How is it different from energy?
- 14. What is the Competitive Exclusion Principle? How is it related to a niche?
- 15. What is biological magnification? How does it affect top predators? Examples?
- 16. What is exponential growth?
- 17. What is a limiting factor?
- 18. Describe the different types of limiting factors.
- 19. Describe nitrogen fixation and denitrification in the nitrogen cycle.
- 20. List steps of the carbon cycle.
- 21. Know all of the nutrient cycles, including reservoirs (where nutrients are stored).
- 22. What is special about matter? (hint: why do we have cycles?)
- 23. Describe the following and give an example of each.
 - a. Food chain
 - b. Food web
- 24. What are the effects on consumers if a producer is removed?
- 25. List ways to decrease/increase biodiversity.
- 26. What are ways humans are impacting the environment?
- 27. Explain conservation biology; sustainability.