

Name: _____ Per: _____ Date: _____

Agriculture Biology Unit 1 Test Review

1. Does an ecosystem support more autotrophs or heterotrophs?
2. Draw a food chain including arrows that has at least 4 organisms in it. Label each of the organisms with either, producer or consumer and include what level each is.
3. Draw a food web that includes at least 10 organisms. Label each organism as a producer or tell what level of heterotroph it is.
4. How are animals able to survive while hibernating?
5. How does energy change as it goes through living systems?
6. How much energy is LOST every time you go up a level on the energy pyramid?
7. How much food do animals need to eat?
8. If there are 100,000 kcal available at the producer level, how much of that energy would the tertiary consumer get?
9. In a food chain, which trophic level contains the greatest number of organisms?
10. In a food chain, which trophic level has the greatest amount of energy?
11. What are 2 reasons animals migrate?
12. What are organisms that digest dead plant and animal tissues called?
13. What do primary consumers eat?
14. What is the main source of energy to all organisms?

15. What level consumer is a snake that eats mice who eat grass?
16. What level of consumer are grasshoppers that eat grass?
17. What might happen in an ecosystem if the number of organisms in the third trophic level exceeded the number of organisms in the second trophic level?
18. What type organism is able to produce and use energy in the process of photosynthesis?
19. Why is energy lost as you move up the food pyramid?
20. Which uses the most fossil fuel energy to produce food? Developed countries or third world countries?
21. List the steps of the scientific method.
22. When creating a graph of scientific data, where does the independent variable go?
23. When creating a graph of scientific data, where does the dependent variable go?
24. What is the independent variable?
25. What is a dependent variable?
26. What is bias? Give an example.
27. What is carrying capacity?
28. What is the definition of “limiting factors?” Give 2 examples.
29. Define the following:
 - Mutualism:
 - Commensalism:
 - Parasitism:
30. What is the difference between parasitism and a predator/prey relationship?
31. What happens to populations when there is an unlimited amount of resources? (What do we call this?)
32. What is a trophic cascade?
33. What is the difference between an observation and an inference?