

1.1-1.7 Study Guide Questions

Answer in complete sentences.

1. Differentiate between a unicellular and multicellular organism. (1.1)
2. Name several ways in which organisms interact. (1.1)
3. How are organisms in the web of life connected to each other? (1.1)
4. Differentiate biotic and abiotic. (1.1)
5. Describe each type of organism in a community. (1.2)
6. What is a food chain? Give an example. (1.2)
7. What happens to a community if you remove one organism from a food web? (1.2)
8. Explain matter. (1.3)
9. How does energy move through a food web? (1.3)
10. Where is chemical energy found? How is it measured (what unit)? (1.3)
11. Why do you and your fellow animals need energy? (1.3)
12. Explain what happens during photosynthesis. (1.4)
13. Describe the pyramid of energy. Why is there less energy available at the top of the pyramid?
(1.4)
14. How much energy is lost at each trophic level of the energy pyramid? (1.4)
15. How does matter cycle in the biosphere? (1.5)
16. Compare atoms and molecules with legos to explain matter changing form. (1.5)
17. Why do you need to rearrange the atoms of the food you eat? (1.5)
18. What is the biosphere? (1.6)
19. Which terms are used to describe movement into or out of a community? (1.6)
20. Name four effects humans have on the biosphere. (1.6)
21. Differentiate between data and opinion. (1.7)
22. Briefly describe the steps of the scientific method. (1.7)
23. What is a hypothesis? (1.7)
24. Why would a scientist perform an experiment? (1.7)
25. What is a theory? (1.7)