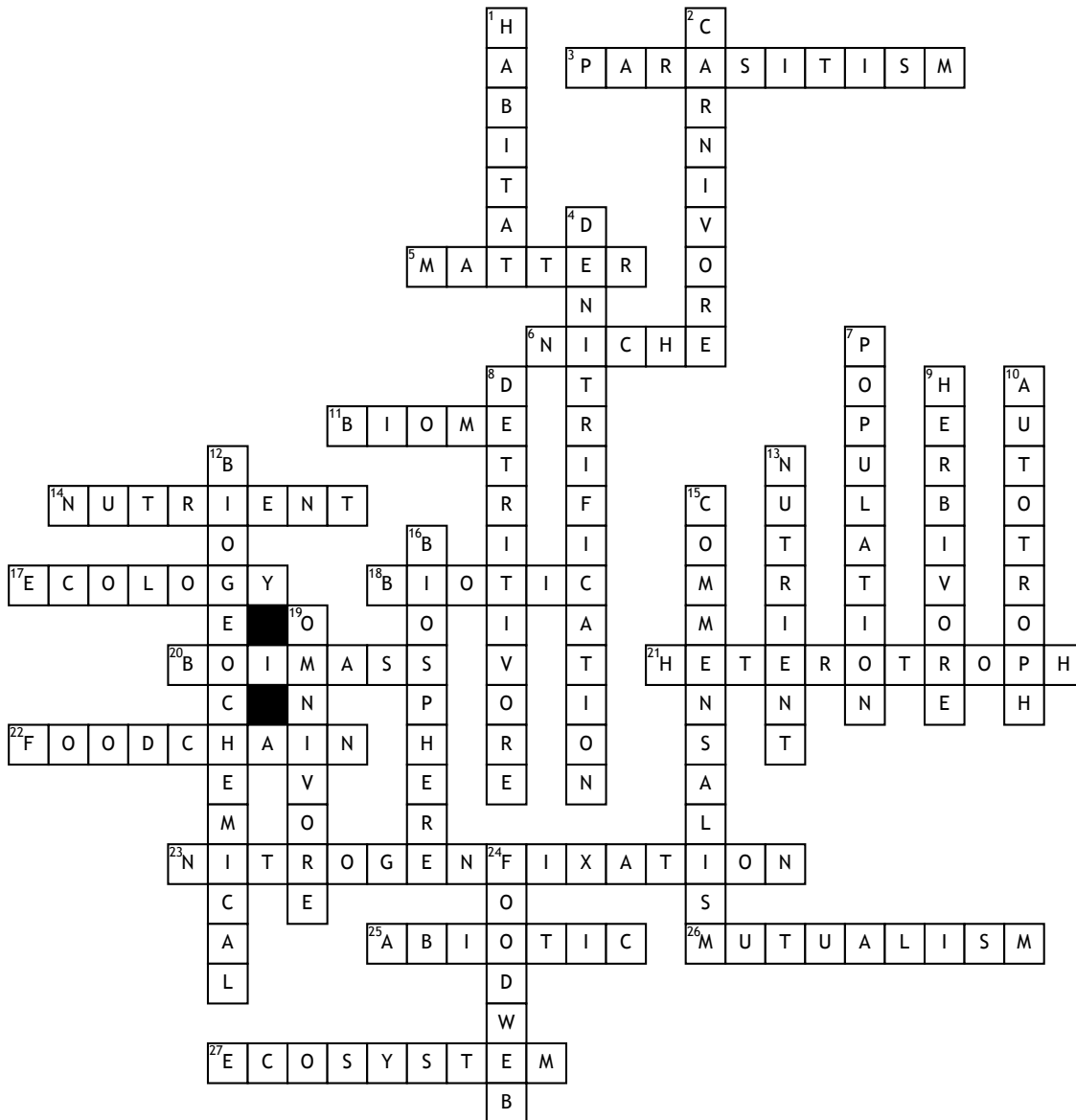


Chapter 2: Principles of Ecology



Across

3. symbiotic relationship in which one organism benefits at the expense of another organism
5. anything that takes up space and has mass
6. role, or position, of an organism in its environment
11. large group of ecosystems that share the same climate and have similar types of communities
14. chemical substance that living organisms obtain from the environment to carry out life processes and sustain life
17. scientific study of all the interrelationships between organisms and their environment
18. any living factor in an organism's environment
20. total mass of living matter at each trophic level
21. organism that cannot make its own food and gets its nutrients and energy requirements by feeding on other organisms

22. simplified model that shows a single path for energy flow through an ecosystem
 23. process in which nitrogen gas is captured and converted into a form plants can use
 25. any nonliving factor in an organism's environment, such as soil, water temperature, and light availability
 26. symbiotic relationship in which both organisms benefit
 27. biological community and all the nonliving factors that affect it
- Down**
1. physical area in which an organism lives
 2. heterotroph that preys on other heterotrophs
 4. process in which fixed nitrogen compounds are converted back into nitrogen gas and returned to the atmosphere
 7. group of organisms of the same species that occupy the same geographic place at the same time

8. heterotroph that decomposes organic material and returns the nutrients to soil, air, and water, making the nutrients available to other organisms
9. heterotroph that eats only plants
10. organism that captures energy from sunlight or inorganic substances to produce its own food
12. exchange of matter through the biosphere involving living organisms, chemical processes, and geological processes
13. chemical substance that living organisms obtain from the environment to carry out life
15. symbiotic relationship in which one organism benefits and the other organism is neither helped nor harmed
16. relatively thin layer of Earth and its atmosphere that supports life
19. heterotroph that consumes both plants and animals
24. model that shows many interconnected food chains and pathways in which energy and matter flow through an ecosystem