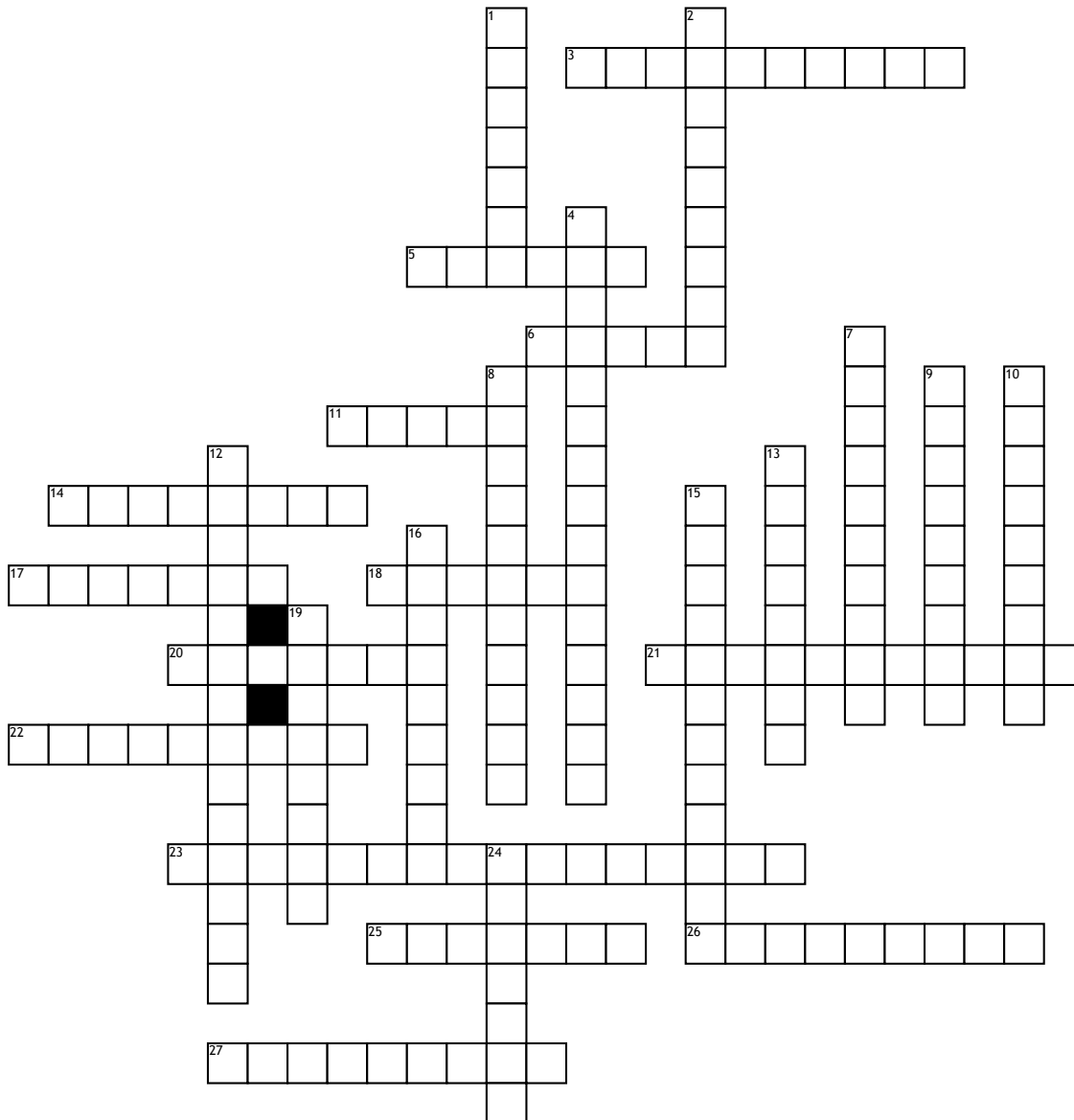


Chapter 2: Principles of Ecology



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