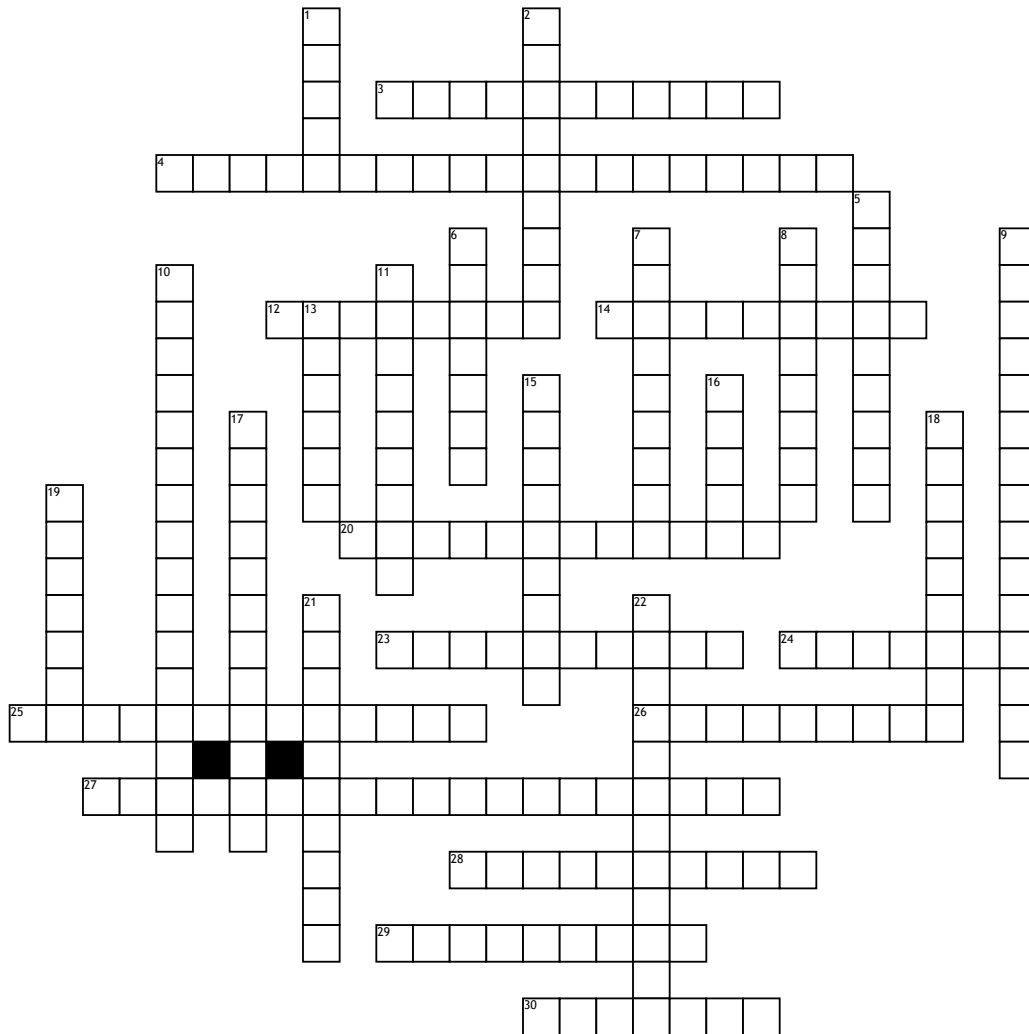


Name: _____

Date: _____

Chapter 2



Across

3. organism that cannot make its own food and get its nutrients and energy requirements by feeding on other organisms; also called a consumer

4. exchange of matter through the biosphere involving living organisms, chemical processes, and geological processes

12. heterotroph that consumes both plants and animals

14. act of one organism feeding on another organism

20. each step in a food chain or food web

23. heterotroph that decomposes organic material and returns the nutrients to soil, air, and water, making the nutrients available to other organisms

24. physical area in which an organism lives

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. all the interacting populations of different species that live in the same geographic location at the same time

28. group of organisms of the same species that occupy the same geographic place at the same time

29. simplified model that shows a single path for energy flow through an ecosystem

30. total mass of living matter at each trophic level

Down

1. role, or position, of an organism in its environment

2. heterotroph that eats only plants

5. organism that captures energy from sunlight in inorganic substances to produce its own food; provides the foundation of the food supply for other organisms; called a producer

6. scientific study of all the interrelationships between organisms and their environment

7. heterotroph that preys on other heterotrophs

8. chemical substance that living organisms obtain from the environment to carry out life processes and sustain life

9. process in which fixed nitrogen compounds are converted back into nitrogen gas and returned to the atmosphere

10. process in which nitrogen gas is captured and converted into form plants can use

11. relatively thin layer of Earth and its atmosphere that supports life

13. anything that takes up space and has mass

15. close mutualistic, parasitic, or commensal association between two or more species that live together

16. large group of ecosystems that share the same climate and similar types of communities

17. any living factor in an organism's environment

18. biological community and all the nonliving factors that affect it

19. model that shows many interconnected food chains and pathways in which energy and matter flow through an ecosystem

21. symbiotic relationship on which one organism benefits at the expense of another organism

22. symbiotic relationship in which one organism benefits and the other organism is neither helped nor harmed

Word Bank

nutrient
biomass
denitrification
ecosystem
carnivore
mutualism

trophic level
abiotic factor
biome
population
omnivore
biotic factor

food chain
herbivore
biological community
symbiosis
autotroph
detritivore

food web
nitrogen fixation
matter
biosphere
commensalism
predation

niche
parasitism
biogeochemical cycle
habitat
ecology
heterotroph