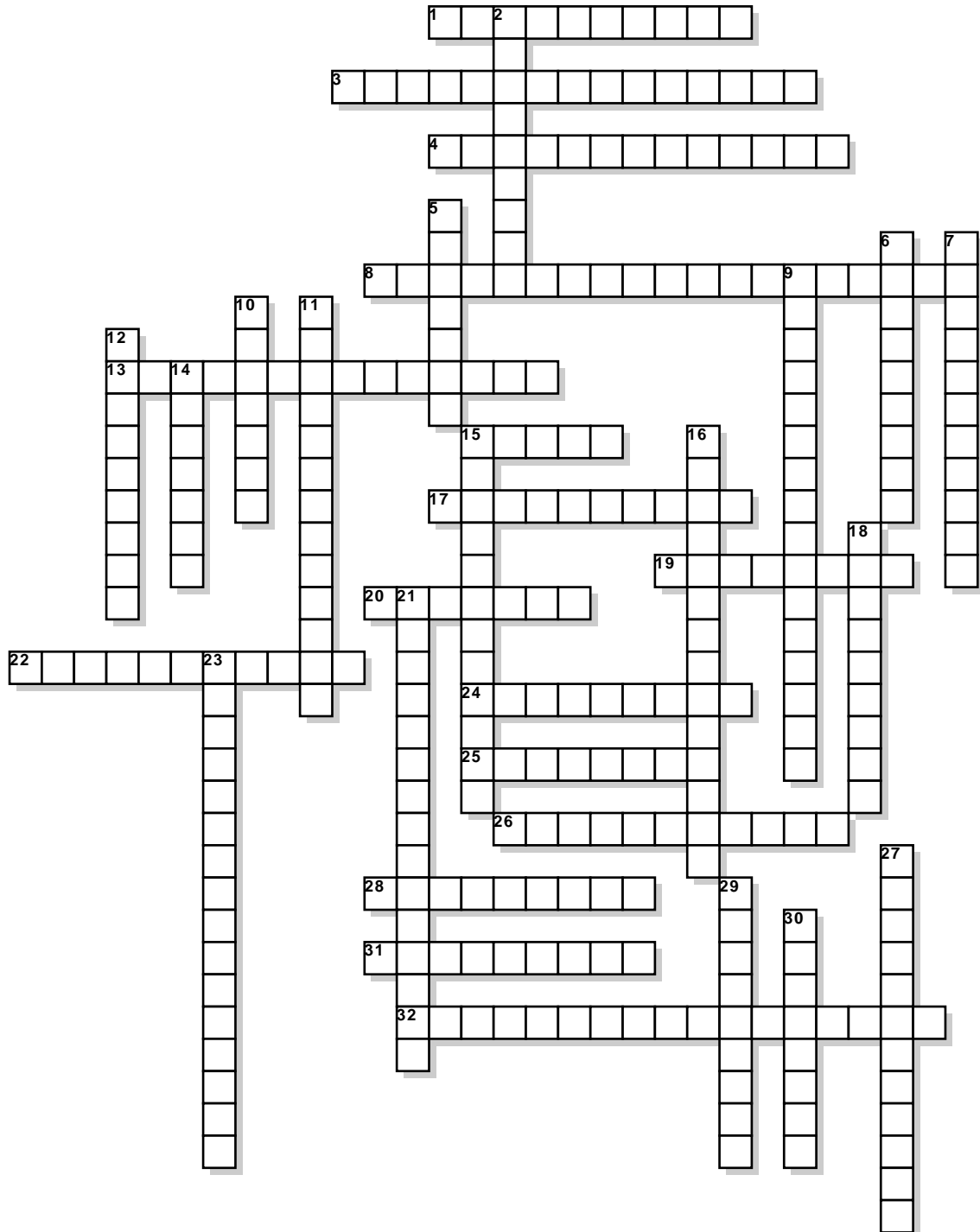


Biology Crossword Puzzle 3



Across

- 1 Organism that breaks down and obtains energy from dead organic matter.
- 3 Process by which bacteria converts nitrates into nitrogen gas.
- 4 Physical, or nonliving, factor that shapes an ecosystem.
- 8 Process in which elements, chemical compounds, and other forms of matter are passed from one organism to another and from one part of the biosphere to another.
- 13 Process in which chemical energy is used to produce carbohydrates.
- 15 Group of land ecosystems with similar climates and typical organisms.
- 17 Group of individuals of the same species that live in the same area.
- 19 Organism that relies on other organisms for its energy and food supply.
- 20 Group of similar organisms that can breed and produce fertile offspring.
- 22 Small free-floating animals that form part of plankton.
- 24 Assemblage of different populations that live together in a defined area.
- 25 Organism that obtains energy by eating both plants and animals.
- 26 Organism that feeds on plant and animal remains and other dead matter.
- 28 Series of steps in an ecosystem in which organisms transfer energy by eating and being eaten.
- 31 Organism that can capture energy from sunlight or chemicals and use it to produce its own food from inorganic compounds.

Down

- 2 Organism that obtains energy by eating animals.
- 5 Network of complex interactions formed by the feeding relationships among the various organisms in an ecosystem.
- 6 Animal that consumes the carcasses of other animals.
- 7 Organism that obtains food by consuming other organisms.
- 9 Single essential nutrient that limits productivity in an ecosystem.
- 10 Total amount of living tissue within a given trophic level.
- 11 Photosynthetic algae found near the surface of the ocean.
- 12 All the organisms that live in a place, together with their nonliving environment.
- 14 Scientific study of interactions among organisms and between organisms and their environment.
- 15 Any living part of the environment with which an organism might interact.
- 16 Process used plants and other autotrophs to capture light energy and use it to power chemical reactions that convert carbon dioxide and water into oxygen and energy-rich carbohydrates such as sugars and starches.
- 18 Organism that obtains energy by eating only plants.
- 21 First producer of energy-rich compounds that are later used by other organisms.
- 23 Process of converting nitrogen gas into nitrogen compounds that plants can absorb and use.
- 27 Each step in a food chain or food web.
- 29 Part of Earth in which life exists including land, water, and air or atmosphere.

Across

32 Illustration of the relative amounts of energy or matter contained within each trophic level in a given food chain or food web.

Down

30 Chemical substance that an organism needs to sustain life.

Possible Answers:

abiotic factor, autotroph, biogeochemical cycle, biomass, biome, biosphere, biotic factor, carnivore, chemosynthesis, community, consumer, decomposer, denitrification, detritivore, ecological pyramid, ecology, ecosystem, food chain, food web, herbivore, heterotroph, limiting nutrient, nitrogen fixation, nutrient, omnivore, photosynthesis, phytoplankton, population, primary producer, scavenger, species, trophic level, zooplankton