

# Ecosystems

“EOG Review: CALLING All Fifth Grade Scientists”

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# Ecosystems

- 1. In this type of ecosystem, there are freshwater areas, estuaries, and marine areas.
- 2. This type of ecosystem includes streams, rivers, lakes, marshes, and swamps. The salt levels are low and it supports a wide variety of plant and animal life.

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3. This term describes a complex ecological community that extends over a large geographic area. It consists of many ecosystems.

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- 4. The physical place where an organism lives is called its \_\_\_\_\_ (hint: the answer is not “crib”).
- 5. When several organisms live in the same environment, they are said to \_ \_ - \_ \_ \_ \_ \_.
- 6. What word refers to the interaction of all living things in an area? (hint: they are part of a \_\_\_\_\_)

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- 7. Ecology Edith needs help. She needs to know the word that describes all living things in an area and their habitat (living and nonliving). What word is she trying to remember?
- 8. Factors in the ecosystem that are nonliving are called \_\_\_\_\_. Two examples are \_\_\_\_\_ and \_\_\_\_\_.

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- 9. The living factors in an ecosystem are called \_\_\_\_\_ . An example from our model ecosystem is \_\_\_\_\_ .
- 10. Which of the followings scientists would most likely study the relationships between organisms and their environment?
  - a. Desert Delilah,
  - b. Biomes Bernard,
  - c. A Really Fungi 😊,
  - d. or Ecology Esther

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- 11. A healthy ecosystem has equilibrium or \_\_\_\_\_.
- 12. Watch out, Jacques Cousteau! This type of ecosystem includes ocean areas and seas with high salt content. It is usually warmer and has a lot of sunlight near the surface. Examples include coral reefs, tide pools, beaches, and the ocean floor.

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- 13. Spongegeorge went to a new restaurant last weekend, Mellow Fungi. The restaurant is owned by his friend, Bob Bacteria. Which phrase accurately describes the role of fungi and bacteria in an ecosystem?
  - a. to serve great pizza and clean up afterwards
  - b. help in the natural recycling process (decomposing)
  - c. assist in recycling all living matter (compost)
  - d. use nutrients from the soil to grow



# Ecosystems

- 14. In our model ecosystem, which term describes the relationship between the plants and animals?

- \_\_\_\_\_

- 15. Leroy Lion's lunch time was approaching. He spotted a zebra meandering on the savanna. Yummy—free buffet!

In this example, the lion is the \_\_\_\_\_ and the zebra is the \_\_\_\_\_.

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- 16. On her trip to the beach, Ocean Olivia noticed an awesome place where freshwater and saltwater met. What term best describes this place?
- 17. Fertilizer Ferdinand decided that he would put three times the amount of fertilizer on his lawn . Soon afterward, he noticed that all of his grass was dead! What term means that too many nutrients (too much fertilizer) were added to the soil?

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- 18. What term is used to describe all living things?
- 19. Pill Bug Polly (an isopod) is a terrestrial creature. If she is terrestrial, where does she live?
  - a. in the ocean
  - b. in a United States territory
  - c. on the land
  - d. next door to E.T.

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- 20. Precipitation, condensation, and evaporation are part of a continual process called the \_\_\_\_\_.
- 21. when a gas (water vapor) changes to a liquid
- 22. liquid and solid forms on water from the atmosphere
- 23. when a liquid changes to a gas (vapor)

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- 24. A group of the same type of organisms live in an area. Which name would best suit the President of this group?
- a. Population Pete
- b. Niche Nancy
- c. Ecosystems Emmie
- d. Consumer Chris

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- 25. When an organism (a deer for instance) dies and breaks down into nature, it provides the soil with nutrients. This process is referred to as \_\_\_\_\_.
- 26. Each organism has a position in a community of plants and animals. This position is called the organism's \_\_\_\_\_.
  - a. niche
  - b. political office
  - c. toxin
  - d. biome

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- 27. Petunia the Plant does not need to go to the Mellow Fungi for dinner because she produces her own food in a process known as.....
- 28. Decidious Delia cannot participate in this autumn's fashion show for trees that show off their leaves. Why?
  - a. she has too many leaves
  - b. she loses her leaves in the autumn
  - c. her leaves have changed color
  - d. she has green leaves all year long

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- 29. \_\_\_\_\_ is measured on a scale from 0-14. It determines if a substance is acidic or basic.
- 30. If the result is 0-6 (like lemon juice) and the litmus paper/strip turns red, the substance is \_\_\_\_\_.
- 31. If the result is a 7 like distilled water, the substance is \_\_\_\_\_.
- 32. If the result if 8-14 (like fertilizer) and the litmus paper/strip turns blue, the substance is \_\_\_\_\_.



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- 33. In the food chain and food web, plants make their own food and get their energy from the Sun. Therefore, they are known as \_\_\_\_\_.
- 34. These animals eat food—examples are herbivores, carnivores, and omnivores.
- 35. This animal recycles matter and energy. It keeps the community clean by eating dead organisms (examples: aquarium snail, isopod).

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- 36. This type of consumer uses plants for energy. Examples include insects, fish, lizards, mice, birds, and deer.
- 37. These consumers get energy from primary consumers.
- 38. These consumers get energy from secondary consumers.

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- 39. This type of animal feeds on dead organic matter that could have been killed by a predator.
- 40. Most humans are consumers that eat both plants and animals. We are known as \_\_\_\_\_.
- 41. This consumer eats plants only (note: the answer is not vegetarian).
- 42. This consumer is the perfect star for a Discovery Channel animal video—it ravenously eats meat!

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- 43. When we completed the ecosystem pollution investigation, we used vinegar to represent acid rain, fertilizer to represent over-fertilization, and salt to represent road salt. These materials are substances with damaging affects on the environment. What term best describes these substances?

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- 44. Wasteful Walter's button factory is putting a lot of chemicals in the air. The Environmental Protection Agency (EPA) sues Walter on the grounds that he is putting harmful things into the environment. What term best describes what Walter is doing to the environment?

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- 45. Environmentally Conscious Eva believes in a sensible use of the earth's surface to avoid harming the environment. This sensible use is called \_\_\_\_\_.
- 46. Name that Biome:
- This biome receives little rain, has extreme temperatures, drought resistant grass. Plants include sagebrush and cacti (adapted to conditions by storing H<sub>2</sub>O). Animals include the kangaroo rat, snakes, lizards, some birds, spiders, and insects.

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- 47. Where am I? Name the biome.
- BRRRRRR! This biome is treeless. Below the soil is a thin layer of PERMAFROST (permanently frozen ground). It is located in the northernmost part of the earth. Summer temperatures are around freezing. Mosses and lichens grow well (low shrubs). Animals include the reindeer, caribou (not the coffee store), polar bears, arctic wolves, and ptarmigans.

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- 48. Let's go on a field trip to this biome!
- This biome has abundant rainfall, is very humid, has trees with canopies, the floor (bottom ground) does not get much sunlight, and has many species of plants and animals. Examples of plants include vines, ferns, orchids, large and small trees. Examples of animals include orangutans, insects, sloths, and jaguars.



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- 49. You don't have to go far for this biome—just walk outside! This biome contains deciduous trees, has medium rainfall amounts, and has trees that change color in the autumn (fall). Examples of plants are redbud, oak, maple, pine, and dogwood. Examples of animals include squirrels, deer, foxes, and bears.

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- 50. Wow—this biome is a great location for a National Geographic video. This biome is also called a savanna. It has low or seasonal rainfall. Examples of plants include buffalo grass, sunflower, goldenrods, and clover. Examples of animals include bison, antelope, zebras, and prairie dogs (yes, they are cute and no, they are not actual dogs).

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- 51. This biome is located in parts of Canada, Europe and Asia. It has evergreen CONIFEROUS forest (trees with cones). The soil is acidic and difficult for plants to grow. The ground is covered in snow most of the year and animals grow a thick fur. Examples of animals include moose deer, mice, porcupines, and snowshoe hares.