

## Biology in the 21st Century

**Study Guide B****Answer Key****SECTION 1. THE STUDY OF LIFE**

1. Answers should include different land and aquatic environments, as well as the atmosphere.
2. the variety of life on Earth
3. a type of living thing that can interbreed to reproduce
4. Biodiversity is the variety of life (or species) across the biosphere.
5. It increases from the poles to the equator.
6. made up of cells; uses energy and has metabolism; responds to its environment; can reproduce and grow
7. **Cells:** all organisms are made of one or more cells. **Energy and metabolism:** all organisms need energy for chemical processes, called metabolism. **Response to environment:** all organisms respond to physical factors, called stimuli, in their environment. **Reproduction and development:** all organisms must have the ability to reproduce and pass on their genetic material, or DNA, to their offspring.
8. *Bio-* means "life," and *sphere* means ball-shaped. *Biosphere* means all of the places living things are found on Earth.
9. any individual living thing
10. Metabolism is all of the chemical processes that change substances in an organism.
11. DNA is the genetic material of all organisms, and it is passed on to offspring during reproduction.

**SECTION 2. UNIFYING THEMES OF BIOLOGY**

1. an organized group of related parts that interact to form a whole
2. Sample Answer: body systems; an organ
3. Molecules
4. Different types of cells work together to form a system, such as the circulatory system.
5. Organism
6. Different living things interact with each other and with nonliving parts of their environment.
7. Structure refers to shape and arrangement. Function is how something works or what it does.
8. Sample Answer: Cells in the brain have long branching structures that allow them to send messages long distances.
9. the maintenance of constant internal conditions in an organism
10. Homeostasis keeps cells within a range of conditions that allow cells to complete their activities.
11. Students' answers will vary but should indicate that negative feedback acts to return a condition to normal.
12. the change in living things over time.
13. changes
14. Adaptations
15. ecosystem
16. homeostasis

# 2015 Railroad Study Guide Answers

**Judd E. Hollander**



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