

Chapter Reviews Honors Biology
Chapter 1 Exploring Life

1.1 Levels of Organization

1. List the hierarchical arrangement from bottom to top and give examples of each.

1.2 Living organisms and their environment

2. Define producer, consumer and decomposer.
3. Give an example of each.
4. Explain the cycle of chemical nutrients and E through an ecosystem.

1.3 Cells are the structural and functional units of life

5. How do prokaryotic cells differ from eukaryotic cells?
6. Explain why cells are considered the basic units of life.

1.4 The unity of life: common features

7. What molecule is found in all living things and what are the 4 building blocks?
8. List the 7 characteristics of all living things.

1.5 Diversity of life

9. List the 3 domains of life and explain what characteristic define each domain.
10. Give an example of an organism from each domain.
11. Name each Kingdom, describe its characteristics and give an example of an organism for each.

1.6 Evolution explains the unity and diversity of life

12. In a paragraph, who is Darwin and what is the name of his paper? Describe his theory of natural selection.

1.7 Two approaches to learn about nature

13. Define discovery science and the use of inductive reasoning.
14. Define hypothesis based science and deductive reasoning.

1.8 Hypothesis based science

15. What are the elements of the scientific method?
16. What does it mean to conduct a controlled experiment and why is it difficult to draw a conclusion from an experiment that is not controlled?

1.9 Biology and technology

17. What is the goal of technology?
18. How are biology and technology related?

Other

- ✓ metric system and conversions
- ✓ graphing skills (line vs. bar)
- ✓ measurement and lab skills