

1.3 Studying Life

Lesson Objectives

- 1. List the characteristics of living things.
- 2. Identify the central themes of biology.
- 3. Explain how life can be studied at different levels.
- 4. Discuss the importance of a universal system of nomenclature.

Lesson Summary

Characteristics of Living Things **Biology** is the study of life. Living things share these characteristics: They are made of cells and have a universal genetic code; they obtain and use materials and energy to grow and develop; they reproduce; they respond to signals in their environment (stimuli); and maintain a stable internal environment; they change over time.

Big Ideas in Biology The study of biology involves several central overarching big ideas:

- 1. **Cellular basis of life.** Living things are made of cells.
- 2. **Information and heredity.** All living things are based on a universal genetic code written in a molecule called DNA.
- 3. **Matter and energy.** Life requires matter that provides form, structure, and energy. The continuous flow of physical materials through objects and organisms builds up or breaks down materials in called **metabolism**.
- 4. **Growth, development, and reproduction.** All living things reproduce. In sexual reproduction, cells from two parents make up from the DNA code of a new organism. In asexual reproduction, a single organism produces offspring identical to itself. Organisms grow and develop in their lifetime.
- 5. **Homeostasis.** Living things maintain a relatively stable internal environment.
- 6. **Evolution.** Taken as a group, living things evolve, defined as a common origin.
- 7. **Structure and function.** Each major group of organisms has evolved structures that make particular functions possible.
- 8. **Unity and diversity of life.** All living things are fundamentally similar at the molecular level.
- 9. **Interdependence in nature.** All forms of life on Earth are connected into a "biological" or living planet.
- 10. **Science as a way of knowing.** Science is not a list of facts but "a way of knowing."

Fields of Biology Biology includes many overlapping fields that use different tools to study life. These include microbiology, plant biology, and molecular biology.

Performing Biological Investigation Most scientists use the scientific method as a way to obtain quantitative data. They can instead be using laboratory procedures. To remain safe when you are doing investigations, the most important rule is to follow your teacher's instructions.

3 Studying Of Life Answer Key

Kathy Flynn, Terri McNamara



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