Section 1–3 Studying Life (pages 16–22)

TEKS FOCUS: 1A Safe practices; 3C Impact of research on society and environment; 11A Feedback and homeostasis; 11B Response to stimuli

This section describes the characteristics of living things. It also explains how life can be studied at different levels.

Introduction (page 16)

1. What is biology? _____

Characteristics of Living Things (pages 16–20)

- 2. What is a cell?
- 3. Circle the letter of each sentence that is true about cells.
 - **a.** A cell is the smallest unit of an organism that can be considered alive.
 - **b.** A multicellular organism may contain trillions of cells.
 - **c.** A living thing that consists of a single cell is a multicellular organism.
 - **d.** Organisms are made up of cells.
- 4. What are two types of asexual reproduction?
 - a. _____
 - b. _____
- 5. Living things are based on a universal _____
- 6. Circle the letter of each sentence that is true about living things.
 - **a.** The life cycle of many organisms involves development.
 - **b.** For bacteria, growth is mostly a simple increase in size.
 - **c.** Each type of organism has a distinctive life cycle.
 - **d.** Cells may change in number but never differentiate.
- 7. Why does an organism need energy and a constant supply of materials?

8. What is metabolism?

Nam	e Class Date
	s the following sentence true or false? All organisms respond to the environment in xactly the same ways
10. V	Vhat is homeostasis?
- 11. <i>A</i>	a group of organisms that changes over time is said to

Branches of Biology (pages 20–21)

Match the different kinds of biologists with the focus of their study.

- Kinds of BiologistsFocus of Study12. Zoologista. Plants
- _____ **13.** Botanist **b.** Ancient life
- _____ 14. Paleontologist c. Animals
- **15.** Label each of the illustrations below according to the level of study represented.



16. The largest level of biological study is the _____.

human society?

Biology in Everyday Life (page 22)

17. What kinds of information can the study of biology provide about matters affecting

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