### Chapter 3 Study Guide

#### Section 3.1 Cell Theory

Key Concept: Cells are the basic unit of life.

### Vocabulary

cell theory organelle cytoplasm prokaryotic cell eukaryotic cell

#### Main Idea: Early studies led to the development of the cell theory.

For questions 1–5, briefly describe what each of the following scientists did to help develop the cell theory.

- Hooke:
- 2. Leeuwenhoek:
- 3. Schleiden:
- 4. Schwann:
- 5. Virchow:
- 6. What are the three parts of the cell theory?
- 7. Give two reasons why the cell theory is important.

Main Idea: Prokaryotic cells lack a nucleus and most internal structures of eukaryotic cells.

- 8. List the characteristics of eukaryotic cells.
- 9. List the characteristics of prokaryotic cells.
- List the characteristics that both kinds of cells—eukaryotic and prokaryotic—have in common.

### Vocabulary Check

- 11. What is cytoplasm?
- 12. Where do you find organelles?

# **Section 3 1 Cell Theory Study Guide**

**Mocktime Publication** 

### **Section 3 1 Cell Theory Study Guide:**

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