## Chapter 1

### Chapter 1 Project Worksheet 1 (p. 6)

Students' data tables and graphs will vary somewhat. In general, eggs will increase in size when they soak in vinegar and plain water, and they will decrease in size when they soak in liquids that have a lower concentration of water, such as salt water.

### Chapter 1 Project Worksheet 2 (p. 7)

Column 4 in the table should read: 70 percent (liquid A); 92 percent (liquid B); 87 percent (liquid C); 79 percent (liquid D)

- Liquids A and D would cause the cell to lose water; liquids B and C would cause the cell to take in water.
- Possible answers might include shampoo, syrup, ketchup, or honey.

# Section 1-1 Review and Reinforce (p. 11)

- 1. Hooke
- 2. First person to observe bacteria
- 3. Schleiden
- 4. Concluded that all animals are made up of cells
- 5. Virchow
- 6. M agnification and resolution are both important properties of a microscope. M agnification is the ability to increase how large an object appears, whereas resolution is the ability to bring the details of the object into focus.
- An electron microscope uses electrons instead of light to magnify an object, and it can view an object with much greater magnification and resolution than a light microscope.
- Cells are the basic unit of structure and function in living things, and all living things are composed of cells.
- 9. b
- 10. e
- 11. d
- 12. c
- 13. 3
- 14. g 15. f

### Section 1-1 Enrich (p. 12)

- Transmission electron microscopes (TEM) and transmission positron microscopes (TPM) both use beams of atomic particles to view specimens. However, the TPM uses beams of positrons, which do not harm living things, whereas the TEM uses beams of electrons, which living things cannot withstand. Therefore, unlike the TEM, the TPM can be used to view living specimens.
- Acoustic microscopes bounce high-frequency sound waves off an object. The echoes of the sound waves are then translated onto a screen as a microscopic image.
- Transmission positron microscopes and acoustic microscopes can be used to view cells that are still alive and functioning. Electron microscopes, on the other hand, can be used to view only cells that are no longer alive.

# Section 1-2 Review and Reinforce (p. 15)

- 1. cytoplasm
- 2. endoplasmic reticulum
- 3. nucleus
- 4. miltochondrion
- 5. cell membrane
- 6. Organelles
- 7. cell wall
- 8. cell membrane
- nucleus
- chromatin
- 11. cytoplasm
- 12. Mitochondria
- 13. endoplasmic reticulum
- 14. Ribosomes
- 15. Golgi bodies
- 16. chloroplasts
- 17. vacuole
- 18. Lysosomes

### Section 1-2 Enrich (p. 16)

 (1) builds new structures; (2) carries materials from place to place; (3) produces power; (4) produces food; (5) disposes of waste; (6) controls the rest of Cell City; (7) stores foods and water; (8) controls what enters and leaves Cell City

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Scott C. Dulebohn

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### **Table of Contents Prentice Hall Biology Workbook Chapter 37**

- 1. Understanding the eBook Prentice Hall Biology Workbook Chapter 37
  - The Rise of Digital Reading Prentice Hall Biology Workbook Chapter 37
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Prentice Hall Biology Workbook Chapter 37
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Prentice Hall Biology Workbook Chapter 37
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Prentice Hall Biology Workbook Chapter 37
  - Personalized Recommendations

- Prentice Hall Biology Workbook Chapter 37 User Reviews and Ratings
- Prentice Hall Biology Workbook Chapter 37 and Bestseller Lists
- 5. Accessing Prentice Hall Biology Workbook Chapter 37 Free and Paid eBooks
  - Prentice Hall Biology Workbook Chapter 37 Public Domain eBooks
  - Prentice Hall Biology Workbook Chapter 37 eBook Subscription Services
  - Prentice Hall Biology Workbook Chapter 37 Budget-Friendly Options
- 6. Navigating Prentice Hall Biology Workbook Chapter 37 eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Prentice Hall Biology Workbook Chapter 37 Compatibility with Devices
  - Prentice Hall Biology Workbook Chapter 37 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Prentice Hall Biology Workbook Chapter 37
  - Highlighting and Note-Taking Prentice Hall Biology Workbook Chapter 37
  - Interactive Elements Prentice Hall Biology Workbook Chapter 37
- 8. Staying Engaged with Prentice Hall Biology Workbook Chapter 37
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Prentice Hall Biology Workbook Chapter 37
- 9. Balancing eBooks and Physical Books Prentice Hall Biology Workbook Chapter 37
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Prentice Hall Biology Workbook Chapter 37
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Prentice Hall Biology Workbook Chapter 37
  - Setting Reading Goals Prentice Hall Biology Workbook Chapter 37
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Prentice Hall Biology Workbook Chapter 37
  - Fact-Checking eBook Content of Prentice Hall Biology Workbook Chapter 37

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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