### 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

# **Prentice Hall Biology Chapter 38 Answers**

Scott C. Dulebohn

**Prentice Hall Biology Chapter 38 Answers:** 

The Top Books of the Year Prentice Hall Biology Chapter 38 Answers The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. Prentice Hall Biology Chapter 38 Answers: Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Prentice Hall Biology Chapter 38 Answers: Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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