

10.1 Cell Growth, Division, and Reproduction

Lesson Objectives

-  Explain the problems that growth causes for cells.
-  Compare asexual and sexual reproduction.

Lesson Summary

Limits to Cell Size There are two main reasons why cells divide:

- ▶ **Information "overload":** The larger a cell gets, the more demands it places on its DNA. Eventually, the cell's DNA cannot meet the cell's needs.
- ▶ **Exchange of materials:** Cells take in nutrients and eliminate wastes through the cell membrane.
 - The larger a cell's volume, the more materials it needs to function and the more waste it creates.
 - A cell's volume increases at a faster rate than its surface area. As a cell grows, its surface-area-to-volume ratio becomes too small.
 - The larger a cell gets, the harder it is for enough materials to move across its cell membrane.
- ▶ **Cell division** solves the information overload and materials exchange problems.

Cell Division and Reproduction Cell division is part of both types of reproduction:

- ▶ **Asexual reproduction:**
 - produces genetically identical organisms.
 - occurs in many single-celled organisms and in some multicellular organisms.
 - allows rapid reproduction of organisms in favorable environments.
- ▶ **Sexual Reproduction:**
 - produces organisms with genetic information from both parents.
 - occurs in most animals and plants and in many single-celled organisms.
 - increases genetic diversity, which aids species survival in changing environments.

Limits to Cell Size

For Questions 1–4, write *True* if the statement is true. If the statement is false, change the underlined word or words to make the statement true.

- | | |
|-----------------------|--|
| <u>stays the same</u> | 1. As a cell's size increases, its amount of DNA <u>also increases</u> . |
| <u>True</u> | 2. The amount of activity in a cell is related to its <u>volume</u> . |
| <u>larger</u> | 3. The smaller the cell, the <u>smaller</u> its ratio of surface area to volume. |
| <u>True</u> | 4. The <u>information crisis</u> in a cell is solved by the replication of the DNA before cell division. |

Modern Biology Study Guide Answer Key Biochemistry

R Sanford



Modern Biology Study Guide Answer Key Biochemistry:

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Table of Contents Modern Biology Study Guide Answer Key Biochemistry

1. Understanding the eBook Modern Biology Study Guide Answer Key Biochemistry
 - The Rise of Digital Reading Modern Biology Study Guide Answer Key Biochemistry
 - Advantages of eBooks Over Traditional Books
2. Identifying Modern Biology Study Guide Answer Key Biochemistry
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Modern Biology Study Guide Answer Key Biochemistry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modern Biology Study Guide Answer Key Biochemistry
 - Personalized Recommendations
 - Modern Biology Study Guide Answer Key Biochemistry User Reviews and Ratings
 - Modern Biology Study Guide Answer Key Biochemistry and Bestseller Lists

5. Accessing Modern Biology Study Guide Answer Key Biochemistry Free and Paid eBooks
 - Modern Biology Study Guide Answer Key Biochemistry Public Domain eBooks
 - Modern Biology Study Guide Answer Key Biochemistry eBook Subscription Services
 - Modern Biology Study Guide Answer Key Biochemistry Budget-Friendly Options
6. Navigating Modern Biology Study Guide Answer Key Biochemistry eBook Formats
 - ePub, PDF, MOBI, and More
 - Modern Biology Study Guide Answer Key Biochemistry Compatibility with Devices
 - Modern Biology Study Guide Answer Key Biochemistry Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modern Biology Study Guide Answer Key Biochemistry
 - Highlighting and Note-Taking Modern Biology Study Guide Answer Key Biochemistry
 - Interactive Elements Modern Biology Study Guide Answer Key Biochemistry
8. Staying Engaged with Modern Biology Study Guide Answer Key Biochemistry
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modern Biology Study Guide Answer Key Biochemistry
9. Balancing eBooks and Physical Books Modern Biology Study Guide Answer Key Biochemistry
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modern Biology Study Guide Answer Key Biochemistry
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Modern Biology Study Guide Answer Key Biochemistry
 - Setting Reading Goals Modern Biology Study Guide Answer Key Biochemistry
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Modern Biology Study Guide Answer Key Biochemistry
 - Fact-Checking eBook Content of Modern Biology Study Guide Answer Key Biochemistry
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
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