

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

**Chapter 10 Cell Growth and Division**

**Section 10-1 Cell Growth (pages 241-243)**

**Key Concept**

- What problems does growth cause for cells?

**Limits to Cell Growth (pages 241-243)**

1. What are two reasons why cells divide rather than continue to grow indefinitely?
  - a. The larger a cell becomes, the more demands the cell places on its DNA.
  - b. The larger a cell becomes, the more trouble the cell has moving nutrients and wastes across the cell membrane.
2. Is the following sentence true or false? As a cell increases in size, it usually makes extra copies of its DNA. false
3. Circle the letter of what determines the rate at which food and oxygen in a cell are used up and waste products produced.
 

a. The cell's organelles	c. The cell's location
<b>b. The cell's volume.</b>	d. The cell's DNA
4. How can you obtain a cell's ratio of surface area to volume? Divide the surface area by the volume.
5. If a cell's surface area is 6 cm<sup>2</sup> and its volume is 1 cm<sup>3</sup>, then what is its ratio of surface area to volume? 6 : 1 or 6 : 1
6. Is the following sentence true or false? As a cell grows in size, its volume increases much more rapidly than its surface area. true
7. Circle the letter of what happens to a cell's ratio of surface area to volume as the cell's volume increases more rapidly than its surface area.
 

<b>a. The ratio decreases.</b>	c. The ratio remains the same.
b. The ratio increases.	d. The ratio disappears.

**Division of the Cell (page 243)**

8. What is cell division? Cell division is the process by which a cell divides into two new daughter cells.
9. How does cell division solve the problem of increasing size? Cell division reduces cell volume.

# Growth And Reproduction Packet Answers

**Rachel S Tattersall**



## **Growth And Reproduction Packet Answers:**

*Cambridge IGCSETM Biology Teacher's Guide (Collins Cambridge IGCSETM)* Sue Kearsley, Mike Smith, 2022-02-03  
Prepare students with complete coverage of the revised Cambridge IGCSETM Biology syllabus 0610 0970 for examination from 2023 Collins Cambridge IGCSE Biology Teacher's Guide is full of lesson ideas practical instructions technician's notes planning support and more

**Excel HSC & Preliminary Senior Science** Jennifer Hill, 2011 This comprehensive study guide covers the complete HSC Preliminary Senior Science course and has been specifically created to maximise exam success This guide has been designed to meet all study needs providing up to date information in an easy to use format The sample HSC Exam has been updated for the new format Excel HSC Preliminary Senior Science contains an introductory section including how to use the book and an explanation of the new course helpful study and exam techniques comprehensive coverage of the entire Preliminary and HSC courses hundreds of diagrams to aid understanding icons and boxes to highlight key concepts and assessment skills including laboratory and field work checklists of key terms end of chapter revision questions with fully explained answers a trial HSC style exam with answers and explanations a glossary of key terms useful websites highlighted throughout

*Cornell Instructional Materials Catalog* New York State College of Agriculture and Life Sciences. Department of Education. Instructional Materials Service, 1992

*Gardening Illustrated*, 1884

**Spotlight Science** Keith Johnson, Sue Adamson, Gareth Williams, 2000 Topic Outlines show parts of the PoS to be covered the relationship of the topic to aspects of KS2 and KS4 and warn of equipment that may need special preparation time in advance Topic Maps are provided for students Lesson Notes relating to each double page spread in the students book offer objectives ideas for each lesson detailed references to the PoS level descriptions safety points with references to CLEAPPS HAZCARDS ICT support cross curricular links and equipment lists Answers to all questions in the students book are also provided Additional support material provide Homework Sheets Help and Extension Sheets to optimise differentiation Sc1 Sc1 Skill Sheets Thinking about activities to improve integration of CASE activities with Spotlight Science Revision Quizzes and Checklists etc Extra Help Sheets for each topic extend the range of support for Sc1 and Sc2 4 Challenge Sheets for each topic provide a variety of enrichment activities for more able students They consist of a variety of challenging activities which will present students with opportunities to develop problem solving thinking presentational and interpersonal skills Technician's Cards include help to prepare lessons equipment requirements and CLEAPPS HAZCARD references For more information visit the website at [www.spotlightscience.co.uk](http://www.spotlightscience.co.uk)

**Resources in education**, 1982-07

**Comfort**, 1916

**Harper's Weekly** John Bonner, George William Curtis, Henry Mills Alden, Samuel Stillman Conant, Montgomery Schuyler, John Foord, Richard Harding Davis, Carl Schurz, Henry Loomis Nelson, John Kendrick Bangs, George Brinton McClellan Harvey, Norman Hapgood, 1905

*The Meaning of Modern Life as Sought for and Interpreted in a Series of Lectures and Addresses by the Leaders of Modern Thought and Modern Action* Charles Francis

Horne,1907     *The Garden* ,1908     Mark Lane Express ,1909     Brewers' Journal and Hop and Malt Trades' Review  
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,1894     **The Garden** ,1874     **American Florist** ,1889     *The Fortnightly Review* ,1905     Sessional Papers Ontario.  
Legislative Assembly,1902

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