



Where this unit fits in

This unit builds on:

unit 58 the concepts that living things have processes in common, and that plants and animals have structures with specific functions (3B, 5B, 1A, 4A, 5A).

The concepts in this unit are:

cells. Pupils are introduced to the concept of cells as the basic unit of life.

This unit leads onto:

units 7B Reproduction, 8B Respiration and 9C Microbes and Disease.

Prior learning

To make good progress, pupils starting this unit need to understand:

- how to recognise living things and distinguish them from things that are not living
- that plants and animals are made up of structures, e.g. muscles and roots, that fulfil specific functions.
- the functions of a flower (reproduction).

Framework yearly teaching objectives – Cells

- Describe a simple model for cells that recognises those features all cells have in common and the differences between animal and plant cells.
- Explain that some living organisms are only one cell but that others are multicelled.
- Explain that growth means an increase in the size and number of cells.
- Explain that similar specialised cells can be grouped together to form tissues, that tissues can form organs, and that these do not all develop and grow at the same time; use this to explain why and how some organisms care for and protect their offspring.

Expectations from the QCA Scheme of Work

At the end of this unit ...

... most pupils will some pupils will not have made so much progress and will some pupils will have progressed further and will ...
In terms of scientific enquiry NC Programme of Study Sc1 1c; 2a, c, d, e, h, j, k, o		
<ul style="list-style-type: none"> • describe some earlier ideas about the structure of living things and relate these to evidence from microscopic observations • make observations using a microscope and record them in simple drawings • suggest a question about pollen tubes that can be investigated and use an appropriate sample • present results in an appropriate graph and explain what these show. 	<ul style="list-style-type: none"> • relate drawings to observations made using a microscope and describe what they found out during their investigation. 	<ul style="list-style-type: none"> • explain how evidence from microscope observations changed ideas about the structure of living things • estimate sizes of specimens viewed under the microscope and justify the sample chosen in an investigation of pollen tubes.
In terms of life processes and living things NC Programme of Study Sc2 1a, b, c, d, e		
<ul style="list-style-type: none"> • identify and name features of cells and describe some differences between plant and animal cells. • explain that growth occurs when cells divide and increase in size • describe how cells are grouped to form tissues. 	<ul style="list-style-type: none"> • recognise that all organisms are made from cells. • name some parts of a cell. 	<ul style="list-style-type: none"> • recognise that viruses are not cells • describe how some cells in an organism are specialised to carry out particular functions.

Suggested lesson allocation (see individual lesson planning guides)

Direct route →					
A1 Organs, cells, tissues	A2 Building blocks	A3 Cells and growth	A4 Scaling up and down: Think about scales	A5 Flower cells	
Extra lessons (not in pupil book)					
A1 Organs, cells, tissues. Extra lesson may be needed depending on choice of main activities.	A2 Building blocks. Extra lesson may be needed depending on choice of main activities.			A5 Investigate: What makes pollen tubes grow?	Review and assess progress (distributed appropriately)

Misconceptions

Pupils often do not relate the 2D diagrams to a 3D shape, so work with models is essential. They think of cells as unmoving and unchanging, which does not help them understand that cells are the basic unit of life. They often think that bacteria and yeast are not cells. They often think that plant cells do not have a cell membrane, because of the presence of the cell wall.

Additional information

Some schools have experienced difficulties with the pollen tube investigation suggested in the QCA Scheme. Activity A5c has therefore been designated as a planning investigation activity. There will be other opportunities in the course to discuss sampling.

Health and safety (see activity notes for further risk assessment)

Microscopes should not be used with sunlight as the light source. Pupils should wash their hands after handling any biological material.

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Table of Contents Harcourt Education Ltd 2003 Catalyst 1 Answers

1. Understanding the eBook Harcourt Education Ltd 2003 Catalyst 1 Answers
 - The Rise of Digital Reading Harcourt Education Ltd 2003 Catalyst 1 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Harcourt Education Ltd 2003 Catalyst 1 Answers
 - 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 Harcourt Education Ltd 2003 Catalyst 1 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Harcourt Education Ltd 2003 Catalyst 1 Answers
 - Personalized Recommendations
 - Harcourt Education Ltd 2003 Catalyst 1 Answers User Reviews and Ratings

- Harcourt Education Ltd 2003 Catalyst 1 Answers and Bestseller Lists
- 5. Accessing Harcourt Education Ltd 2003 Catalyst 1 Answers Free and Paid eBooks
 - Harcourt Education Ltd 2003 Catalyst 1 Answers Public Domain eBooks
 - Harcourt Education Ltd 2003 Catalyst 1 Answers eBook Subscription Services
 - Harcourt Education Ltd 2003 Catalyst 1 Answers Budget-Friendly Options
- 6. Navigating Harcourt Education Ltd 2003 Catalyst 1 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Harcourt Education Ltd 2003 Catalyst 1 Answers Compatibility with Devices
 - Harcourt Education Ltd 2003 Catalyst 1 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Harcourt Education Ltd 2003 Catalyst 1 Answers
 - Highlighting and Note-Taking Harcourt Education Ltd 2003 Catalyst 1 Answers
 - Interactive Elements Harcourt Education Ltd 2003 Catalyst 1 Answers
- 8. Staying Engaged with Harcourt Education Ltd 2003 Catalyst 1 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Harcourt Education Ltd 2003 Catalyst 1 Answers
- 9. Balancing eBooks and Physical Books Harcourt Education Ltd 2003 Catalyst 1 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Harcourt Education Ltd 2003 Catalyst 1 Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Harcourt Education Ltd 2003 Catalyst 1 Answers
 - Setting Reading Goals Harcourt Education Ltd 2003 Catalyst 1 Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Harcourt Education Ltd 2003 Catalyst 1 Answers
 - Fact-Checking eBook Content of Harcourt Education Ltd 2003 Catalyst 1 Answers
 - 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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