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# Year 8 Biological Sciences

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Date prepared: 24 November 2023

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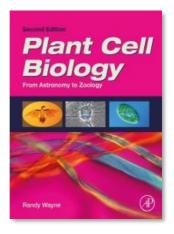
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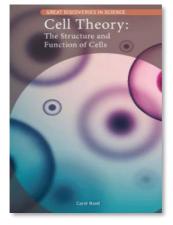
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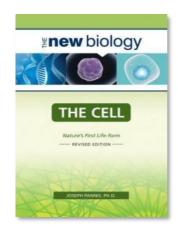
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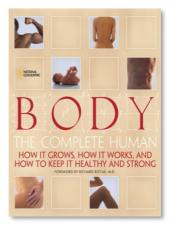
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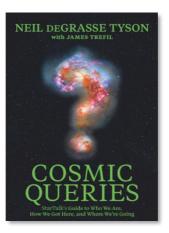


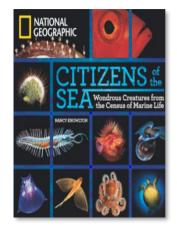
## Featured E-Books















# **Cells: The Building Blocks**

Recognise cells as the basic units of living things, compare plant and animal cells, and describe the functions of specialised cell structures and organelles.

- Exploring an augmented or virtual reality tour of a plant or animal to 'zoom in' and understand the scale of cells.
- Identifying the structure and function of organelles in cells including the nucleus, cell membrane, cell wall, cytoplasm, chloroplasts and vacuoles.
- Examining a variety of cells, including single-celled organisms, using a light microscope, a digital microscope, simulations and photomicrographs.
- Comparing the similarities and differences of plant cells and animal cells visible with a light microscope and represented in a digital or physical model.
- Designing a physical or digital model of a cell and explaining how the representation models the cell.
- Considering how the invention of the microscope has contributed to understanding of cell structure.





## For easy reference

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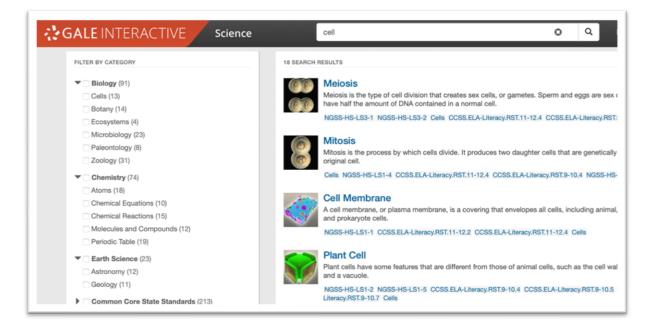
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| Library Teens  | SEARCH Q Your Brita  | annica Resources 👻               | Research Tools and Materials     | Help 💄 My Britannica 👻                 |
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# Cells and their Function: Organ Systems and Survival

Analyse the relationship between structure and function of cells, tissues and organs in a plant and an animal organ system and explain how these systems enable survival of the individual.

- Comparing 2-dimensional and 3-dimensional representations of organ systems to understand how organs are positioned within the body.
- Comparing the structure and function of analogous systems in a plant and an animal.
- Examining the specialised cells and tissues involved in structure and function of particular organs in an organ system.
- Describing the structure of each organ in a system and relating its function to the overall function of the system.
- Researching how a disorder in cells or tissues can affect how an organ functions, such as how hardening of the arteries can lead to poor circulation or heart disease.
- Investigating how an artificial organ mimics or augments the function or functions of a real organ.



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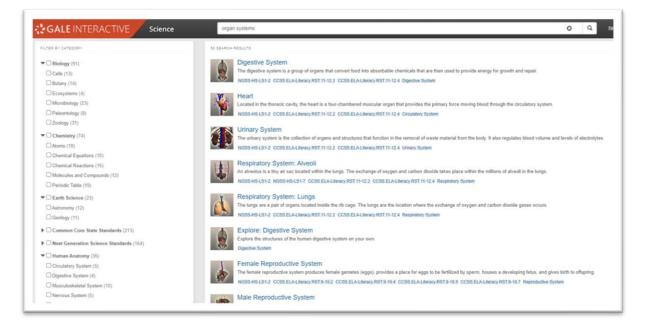
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