

Content Description

Recognise cells as the basic units of living things, compare plant and animal cells, and describe the functions of specialised cell structures and organelles (AC9S8U01)

VR Learning Activities

Listening and Understanding: Students engage with information and explanations about cells as the building blocks of life. They learn about the basic functions of cells, single-celled organisms, and the role of specialised structures within plant and animal cells.

Interactive Exploration: Students investigate the differences between plant and animal cells in a virtual environment. Using a VR probe, they highlight and interact with individual organelles to understand their specific functions and roles within the cell.

Microscopic Analysis: Students examine a large, detailed view of organelles displayed on a virtual microscope screen. This allows for close-up analysis and reinforces their understanding of cellular structures.

Scientific Inquiry: Students respond to a series of questions designed to test their knowledge and understanding of cellular biology. They can experiment within the VR environment to gather the information needed to answer the questions accurately.

Key Learning Areas

Critical and Creative Thinking: Students analyse the roles of different organelles within plant and animal cells, compare their structures, and explore how these structures contribute to the life processes of organisms.

Scientific Inquiry: Students engage in interactive investigations, using tools to examine and understand the functions of specialised cell structures and organelles.

Digital Literacy: Students use VR technology to interact with cell models, highlighting organelles and accessing detailed visual and textual information about their functions.

Numeracy: Students interpret data and relationships, such as comparing the number and arrangement of organelles in plant and animal cells.

Biological Understanding: Students deepen their knowledge of cellular biology by identifying and describing the specialised structures and functions of organelles within plant and animal cells.

