

What we already know		What's next
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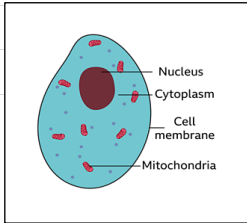
Golden Concepts				
Asking scientific questions and making observations	Planning an investigation	Collecting, presenting and interpreting data	Errors and uncertainty	Science in our world

## Cells and the Human body 89 - Knowledge Organiser

Key Vocabulary	
Cell membrane	Structure in an animal cell that controls the movement of substances in and out of the cell
Cytoplasm	Jelly like substance, site of many chemical reactions.
Nucleus	Found in both plant and animal cells, contains the DNA
Mitochondria	Found in the cytoplasm of the cell. Site of respiration
Gene	A section of DNA that codes for a characteristic
DNA	A code, found in the nucleus of the cells. This code determines the life that is created.
Circulatory system	Organs that work together to move the blood around the body
Respiratory system	Organs that's work together to exchange oxygen and carbon dioxide.
Digestive system	The organs that work together to break down food.
Reproductive system	Organs that work together to enable reproduction.
Puberty	The process of change between childhood and adulthood

### Cells:

- Introduction to cells as the basic units of life.
- Basic structure and function of animal and plant cells.
- Microscopy skills to observe cells.



### Body Systems:

- Overview of the human body systems, such as the circulatory, reproductive and respiratory systems

### Genetics:

- Introduction to genetics and inheritance.
- Understanding DNA and genes

### Cells and Microorganisms:

- Further exploration of cell structure and function.
- Introduction to microorganisms and their role in ecosystems.

### Health and Lifestyle:

- The impact of diet, exercise, and lifestyle on health.
- Reproduction and puberty.

