



Cells

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Cells are the building blocks of life

Light microscope

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A type of microscope which uses a beam of light and a series of glass lenses to magnify small samples

Light microscope parts

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Eyepiece, objective lens, stage, coarse focus knob, fine focus knob

Structures of plant & animal cells

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Cell membrane, cytoplasm, nucleus, small vacuoles, mitochondria





Chromosomes

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Thread-like structures of DNA and protein, located inside the nucleus of cells

Cell membrane

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Controls what enters and leaves the cell, holds the cell together, semi-permeable

Cytoplasm

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Jelly-like fluid in which cell organelles are suspended

Nucleus

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Controls and regulates the activities of the cell, contains DNA (in the form of chromosomes)





Vacuole

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Functions in temporary storage of food and waste material

Mitochondria

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Responsible for the process of respiration

Plant cell extra structures

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Chloroplasts, cell wall

Chloroplasts

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Contains chlorophyll and carries out the process photosynthesis





Cell wall

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Gives the plant cell support and structure, made of cellulose, located outside the cell membrane

Cellulose

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Carbohydrate made up of long chains of glucose molecules

Cell structures not in animal cells

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No cell wall, no chloroplasts, no large vacuoles

Semi-permeable

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A structure that allows some but not all molecules to pass through it





Permeability

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The level to which substances can pass through something

Cell organisation

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Cell, tissue, organ, system, organism

Tissue

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A group of cells working together

Organ

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A group of tissues working together





System

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Different organs
workings
together

Organism

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Systems working
together form an
organism

Stem cells

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Cells that have the
ability of developing
into many different
cell types

Leukaemia

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A type of cancer found in
bone marrow, which leads
to the over-production of
abnormal white blood cells

