

4.1.1 Cell structure, Prokaryotic cells



Studying cells, Microscopy

Light microscopes use light and lenses to magnify. Individual cells can be seen, as well as large organelles e.g. Nucleus.
Electron microscopes (transmission, scanning) use electrons, for a higher magnification and higher resolution.
Magnification calculation

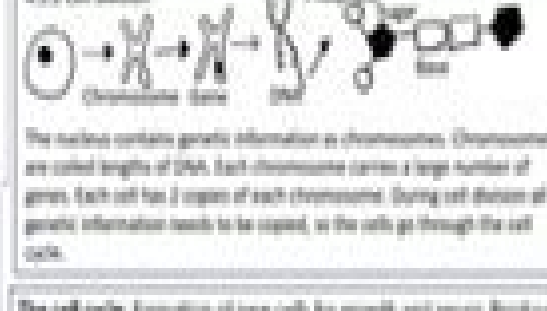
$$\text{Magnification} = \frac{\text{Image size}}{\text{Actual size}}$$

10 µm with a 100x magnification = 1000 µm or 1 mm = 1000 µm

Before Resolution: the ability to distinguish between two points which are close together (resolution)

Before Magnification: increasing the size of an object.
Viewing a specimen: use a stain to provide contrast.
Staining a specimen: Stains provide, bits of the specimen for staining or clearing, all from different contributions, include magnification.
 Size (µm): (an x1000µm, 1000x1000µm, 1000x1000µm, 1000x1000µm)
Cell differentiation: Cells specialise at an early stage of embryo development, by turning genes off and on.
 Cells which are not specialised are called stem cells and they are found in early stage embryos and some fully developed organs.

4.1.2 Cell division

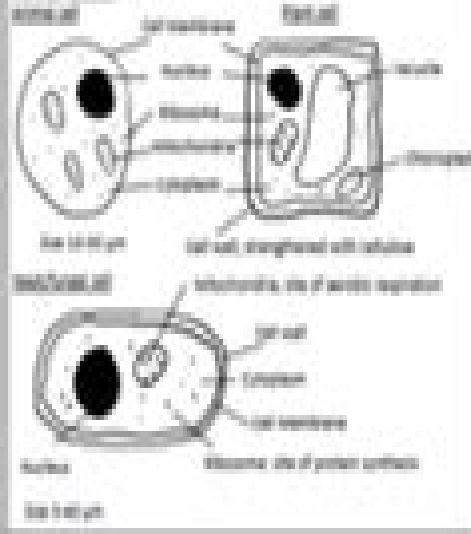


The cell cycle



The cell cycle: formation of new cells for growth and repair. Produces identical daughter cells with the same number of chromosomes. There are 3 stages: Growth and replication of organelles, Mitosis and cell division.

4.1.3 Cells, the nucleus



Specialised cells Biology Trilogy paper 1 Higher page 1

Cells	Name	Function	Adaptation
	Sperm cell	fertilise the egg	tail for genetic info, lots of mitochondria to release energy
	Neuron	carry electrical impulses	long strand of cytoplasm, branched to connect to other neurones
	Root hair cell (epidermal, this is a plant cell)	take up water and mineral ions (osmosis, diffusion and active transport)	large surface area
	Muscle cell	Contract	Contains lots of mitochondria to release energy
	Xylem	transport water and minerals up the plant	thick, hollow tube, transpiration stream
	Phloem	transport sugars around the plant	long, living tubes joined end to end, translocation

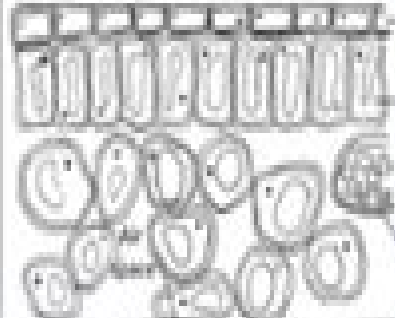


4.1.3 Transport in and out of cells

Three methods of transport:
Diffusion: substances move from an area of high concentration to an area of low concentration. It is random and passive (does not require energy).
 Occurs in the single layers moving from the lungs to the blood and carbon dioxide moving from the blood to the lungs, and in the membrane of a cell moving from the blood to the cell.
Osmosis: The movement of water from a region of high water concentration to a region of low water concentration, across a partially permeable membrane until equilibrium is reached.
Active transport: The movement of a substance against a concentration gradient, from high to low. Requires energy and a carrier protein.

Features of a good exchange surface:

- Good blood supply
- Short diffusion pathways (cells close together)
- Large surface area to volume ratio
- Good transport system (e.g. blood)
- Good transport system (e.g. blood)
- Good transport system (e.g. blood)



Leaf tissues and gases

Water enters the stoma

Stem cells in plants

Stem cells in plants

Stem cells in animals

Stem cells in animals

4.1.3 Leaf organisation

Epidermis: group of cells, building tissue. Specialise to give a particular function. Muscle cells contract and generate force.

Epidermis (epidermis)

Epidermis (epidermis)

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