

### 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, have a higher magnification and higher resolution.  
**Magnification calculation**  

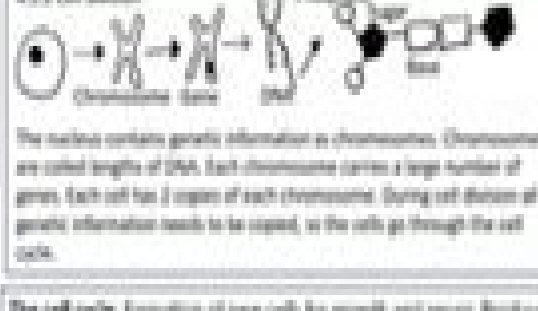
$$\text{Magnification} = \frac{\text{Image size}}{\text{Actual size}}$$

$$10 \mu\text{m wide} \times 1000 \text{ magnification} = 10000 \mu\text{m} = 1 \text{ cm} \times 1000 = 1 \text{ mm}$$

### 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 space, for colouring or clearing, all from direct contrast, include magnification.  
 Size (µm): (an x1000µm, 1mm x1000µm, 1mm x1000µm, 1mm x1000µm)  
**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

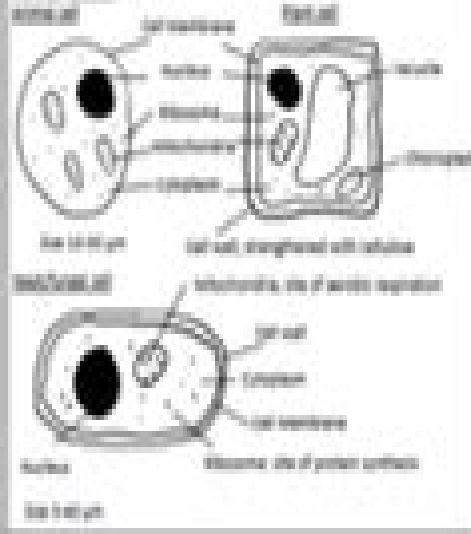


### The cell cycle



**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 basic



### Specialised cells Biology Trilogy paper 1 Higher page 1

Cells	Name	Function	Adaptation
	Sperm cell	fertilise the egg	tail the genetic info into of subfamily 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	dead, hollow tube transpiration stream
	Phloem	transport sugars around the plant	long, living tubes joined end to end translocation

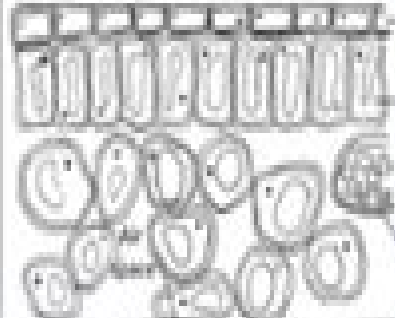


### 4.1.3 Transport in and out of cells

**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 cells.  
**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 ventilation (air flow)
- Thin barrier (e.g. one cell thick)
- Good blood supply (e.g. one cell thick)
- Good ventilation (air flow)
- Good blood supply (e.g. one cell thick)



### Leaf tissues and organs

- Water uptake: xylem
- Upper epidermis: transparent
- Palisade mesophyll: layer contains chloroplasts for photosynthesis
- Spongy mesophyll: contains air spaces for gas exchange
- Guard cells: control opening and closing of the stoma
- Xylem/Phloem: transport water and nutrients

### Stem cells in plants

Found just below the tip of the shoot and roots. Undifferentiated cells which can become any type of cell. Adult stem cells found in most tissues. Can only differentiate into a few different types of cell.

### Stem cells in animals

Found in the embryo and in a very early stage. Can become any type of cell. Adult stem cells found in most tissues. Can only differentiate into a few different types of cell.

### Uses of stem cells and problems

**Uses:** Cure diseases, treat paralysis, muscle regeneration in the heart, diabetes.  
**Problems:** Cloning, using stem cells to create tissues, like organs as spare parts.  
**Ethics:** Cloning, potential for human life, companies making with stem cells to cure diseases.

### 4.1.3 Cell organisation

**Cells:** basic building blocks.  
**Specialise:** to give a particular function. Muscle cells contract and generate force.  
**Epithelial cells:** group of cells working together. Muscle tissue.  
**Epithelial cells:** group of cells working together. Muscle tissue.  
**Epithelial cells:** group of cells working together. Muscle tissue.  
**Epithelial cells:** group of cells working together. Muscle tissue.

**Spongy mesophyll:** contains air spaces for gas exchange.  
**Upper epidermis:** contains guard cells. Guard cells control the opening and closing of the stomata. The stomata are holes which control the movement of gases into and out of the leaf.

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