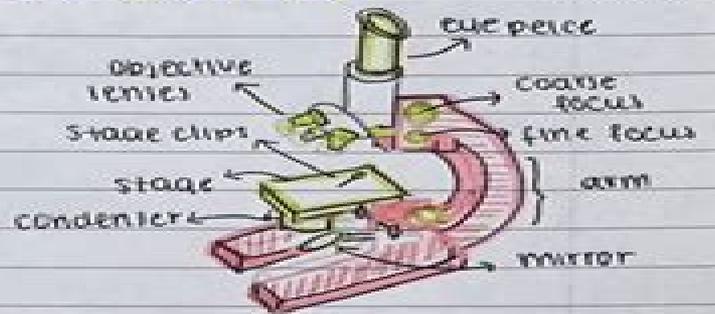


CELL STRUCTURE

03/04/22

Organisms are made up of cells. Most organisms are multicellular and have cells that are specialised to do a particular job. Microscopes are needed to study cells in detail.



Light microscope

- Cells range in size:
- animal cells are between 0.01mm - 0.05mm
 - plant cells are between 0.01mm - 0.10mm

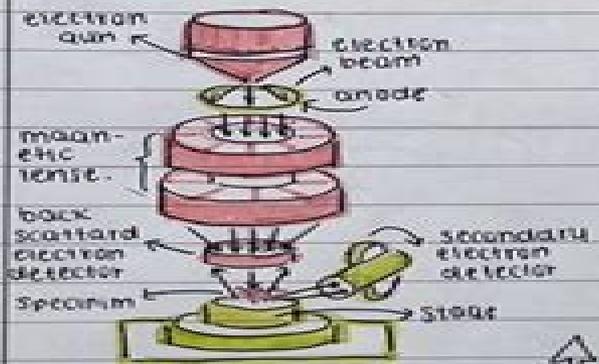


The human eye can see objects as small as around 0.05mm. A microscope is required to see cells in any detail.

CALCULATING MAGNIFICATION OF AN IMAGE = $\frac{\text{size of image}}{\text{real size of image}}$

MAGNIFICATION OF THE MICROSCOPE = magnification of eye piece x magnification of objective.

Microscopes use lenses to magnify the image of a biological specimen.



Electron microscope

Standard Form:

When writing and working with very large numbers, we use standard form. Standard form numbers are written as:

- $A \times 10^n$
- ↳ A is the number: greater than one, but less than 10.
- ↳ n is the index or power, always in powers of 10.

CELL SIZE

The best unit to measure most cells is the micrometer μm . For some sub-cellular structures, for instance ribosomes, or organisms such as viruses, it's best to use a smaller unit - the nanometer. One meter can be broken down into the following measurements.

	mm	μm	nm
division of a meter as a fraction	$\frac{1}{1000}$ meter	$\frac{1}{1000000}$ meter	$\frac{1}{1000000000}$ meter
division of a meter in S.F.	$1 \times 10^{-3} \text{ m}$	$1 \times 10^{-6} \text{ m}$	$1 \times 10^{-9} \text{ m}$

($10^{-3}, 10^{-6}, 10^{-9}$
 $10^3, 10^6, 10^{125}$)

Revision Notes For Olympiad Biology Campbell

Robert R. Redfield



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