

# 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.

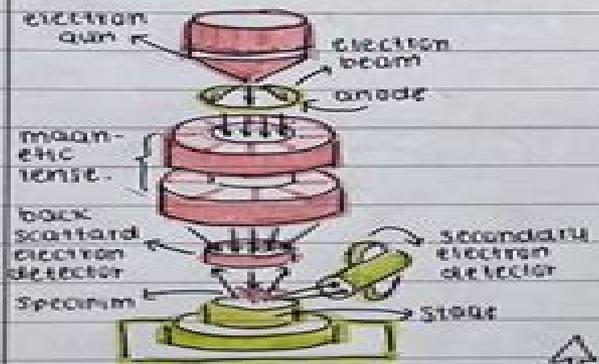
**CALCULATING MAGNIFICATION OF AN IMAGE** =  $\frac{\text{size of image}}{\text{real size of image}}$

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

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

## CELL SIZE

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



## 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.

	mm	$\mu\text{m}$	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.	$1 \times 10^{-3} \text{ m}$	$1 \times 10^{-6} \text{ m}$	$1 \times 10^{-9} \text{ m}$

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

# Science Gcse Revision Notes

**J Ma**



## **Science Gcse Revision Notes:**

The book delves into Science Gcse Revision Notes. Science Gcse Revision Notes is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Science Gcse Revision Notes, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Science Gcse Revision Notes
- Chapter 2: Essential Elements of Science Gcse Revision Notes
- Chapter 3: Science Gcse Revision Notes in Everyday Life
- Chapter 4: Science Gcse Revision Notes in Specific Contexts
- Chapter 5: Conclusion

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5. In chapter 4, the author will scrutinize the relevance of Science Gcse Revision Notes in specific contexts. This chapter will explore how Science Gcse Revision Notes is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Science Gcse Revision Notes. The final chapter will summarize the key points that have been discussed throughout the book.

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