

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:

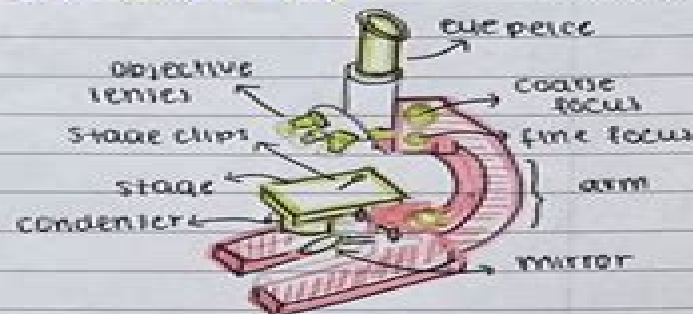
- animal cells are between 0.01mm - 0.05mm
- plant cells are between 0.01mm - 0.10mm



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 =

$$\text{magnification} = \frac{\text{size of image}}{\text{real size of image}}$$



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

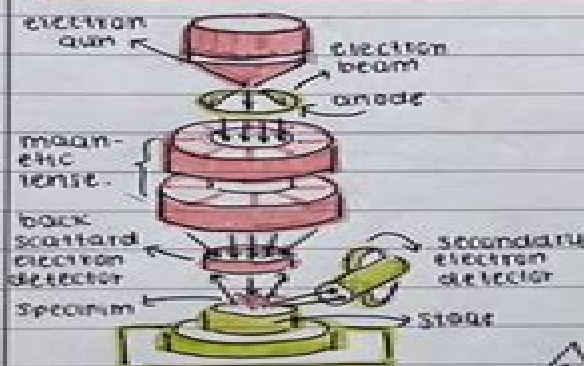
microscopes use lenses to magnify the image of a biological specimen.

CELL SIZE

the best unit to measure most cells is the micrometer 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.



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.

$$(10^{-3}, 10^{-4}, 10^{-15}, 10^3, 10^{15}, 10^{125})$$

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

Notes On Biology

F Rizvi



Notes On Biology:

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

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

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

2. In chapter 1, this book will provide an overview of Notes On Biology. This chapter will explore what Notes On Biology is, why Notes On Biology is vital, and how to effectively learn about Notes On Biology.
3. In chapter 2, the author will delve into the foundational concepts of Notes On Biology. The second chapter will elucidate the essential principles that need to be understood to grasp Notes On Biology in its entirety.
4. In chapter 3, the author will examine the practical applications of Notes On Biology in daily life. The third chapter will showcase real-world examples of how Notes On Biology can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Notes On Biology in specific contexts. The fourth chapter will explore how Notes On Biology is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Notes On Biology. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Notes On Biology.

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