



Biology in Life and in the Classroom

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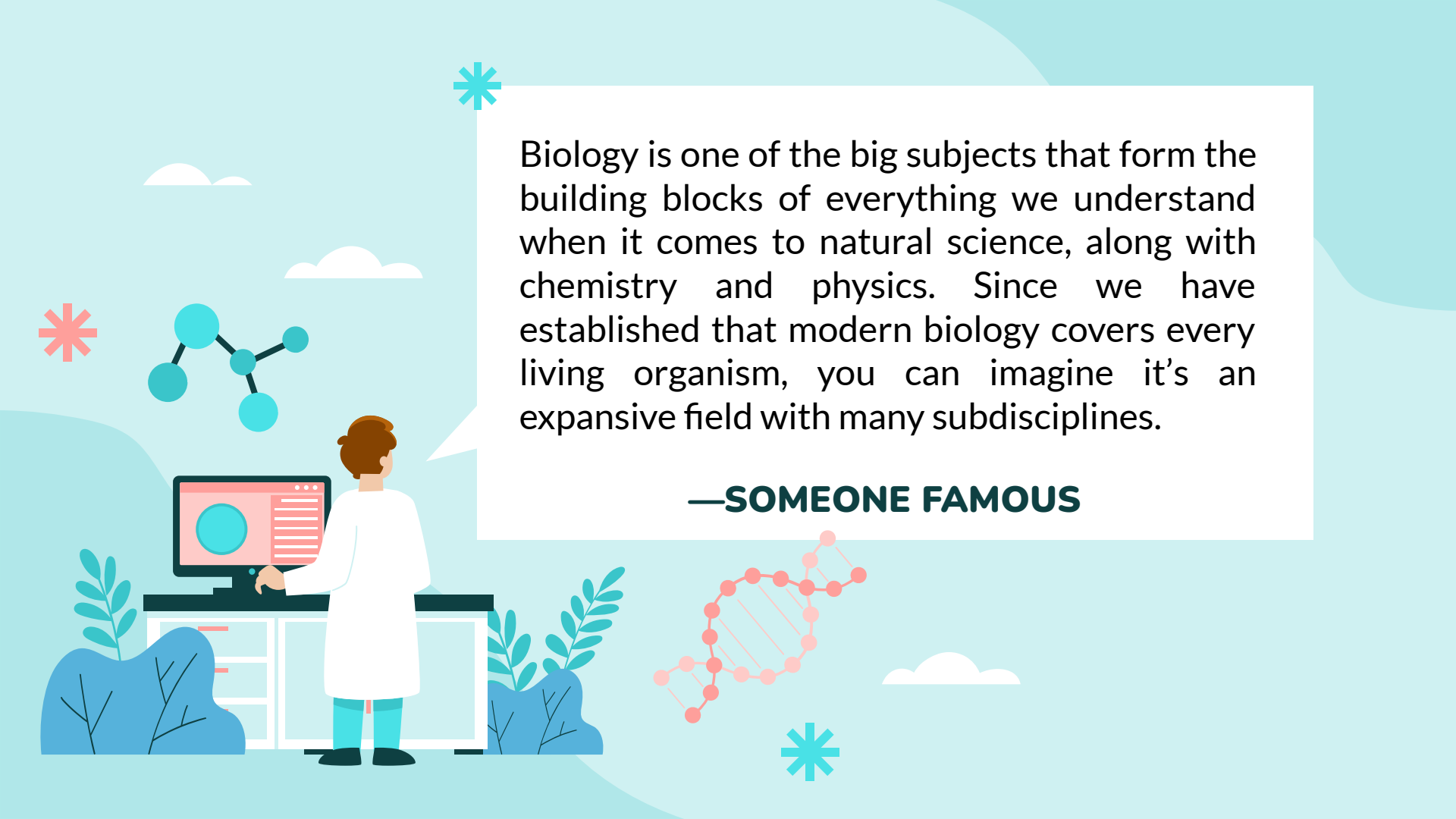
01

WHAT IS BIOLOGY?



Biology is the natural science that focuses on the study of life and living organisms, including their structure, function, development, interactions, evolution, distribution, and taxonomy. The scope of the field is extensive and is divided into several specialized disciplines, such as anatomy, physiology, ethology, genetics, and many more.

All living things share a few key traits: cellular organization, heritable genetic material and the ability to adapt/evolve, metabolism to regulate energy needs, the ability to interact with the environment, maintain homeostasis, reproduce, and the ability to grow and change.

An illustration of a scientist in a white lab coat standing at a desk with a computer. The scientist is looking at a monitor displaying a blue sphere and a list. To the left of the scientist is a red asterisk. Above the scientist is a blue molecular model. To the right of the scientist is a blue molecular model. Below the scientist is a blue asterisk. The background is light blue with white clouds and green foliage.

Biology is one of the big subjects that form the building blocks of everything we understand when it comes to natural science, along with chemistry and physics. Since we have established that modern biology covers every living organism, you can imagine it's an expansive field with many subdisciplines.

—SOMEONE FAMOUS

MAIN BRANCHES OF BIOLOGY



1

Biochemistry

The study of the chemical processes that take place in or are related to living things;

2

Ecology

The study of how organisms interact with their environment

3

Genetics

The study of how genes are passed down by parents to their offspring, and how they vary from person to person;

4

Physiology

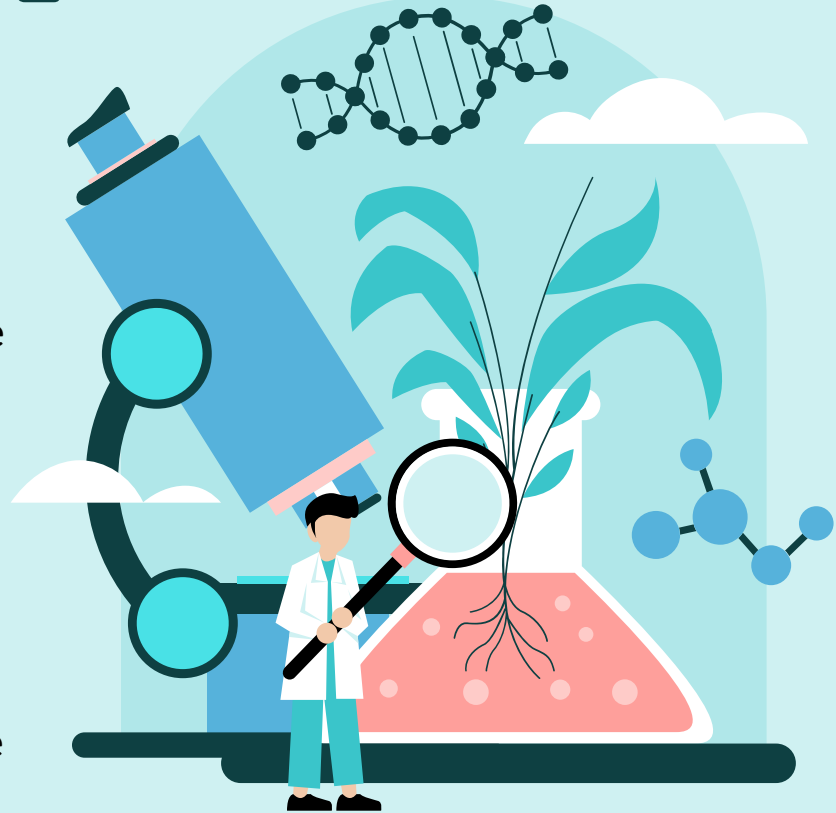
The study of biological processes, such as how a particular organ works, what its function

02

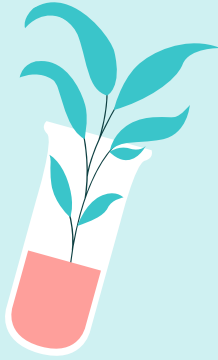
BIOLOGY IN LIFE

Biology is an utterly interesting field of science that has been the centre of focus for centuries. It is because of the biology that we exist. Whatever we do; involves biology in one way or other.

Even when you are doing nothing or sleeping, each cell in your body is working for you. In short, right from the moment you are born, it is biology that plays its role; you grow into a child, you encounter teenage, welcome adulthood and after that, you start ageing. All these beautiful yet fascinating processes have a hidden biological principle.



The importance of biology in our daily life:



1.To understand our bodies better.
2. To remain healthy. The study of biology helps us remain healthy. It tells us about our body, its parts and how they work.

3. To know about diseases.
4. To understand the effects of fertilizers and pesticides.
5. Biology tells us how we should use fertilizers to improve the quality of the soil.

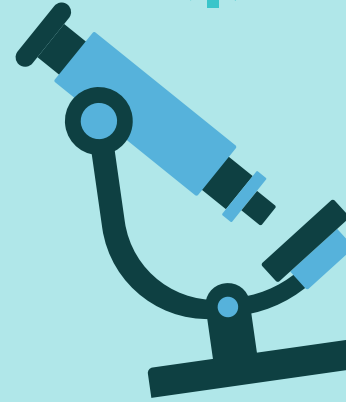
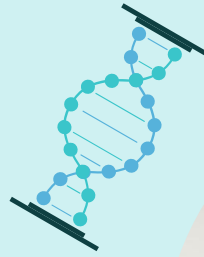
6. It also tells us how the excessive use of weedicides and pesticides affects living beings, including humans, through food chains.
7. To utilize resources wisely.
8. Conservation of nature.
9. Responsibility for maintenance of ecosystem






BIOLOGY IN THE CLASSROOM

Biological science is literally everywhere and everything. As a living being, you are part of biology. So if you want to know how a human body functions, as well as every other living organism, biology is how you find out. It's the best and truest way to understand the world around you



Why study Biology?



Biology helps us understand the big picture

The study of biology connects us to the world we are living in and reminds us of our interconnectedness with all other life forms.



Biology is at the forefront of ecological issues


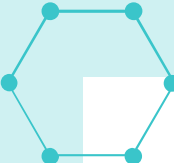
Biologists are also at the cutting edge of ecological conservation research. By studying biology, students become much more aware of ecological issues, and better able to debate situations where exploitation of the environment clashes with conservation objectives, or where we need to develop more sustainable ways of using our natural resources.



Biology is at the heart of many social and economic issues

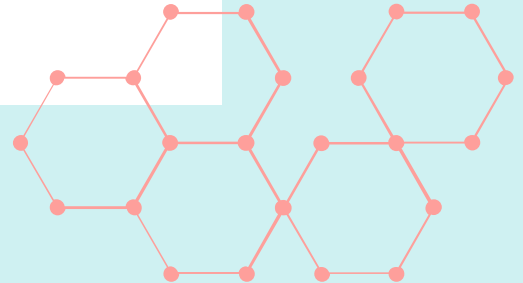
By studying biology, students learn to make more informed decisions about their own health and about significant biological issues such as the use of antibiotics, and the eradication of invasive species.





“Biology is the study of life. In general, biologists study the structure, function, growth, origin, evolution, and distribution of living organisms.”

Alane Lim





THANKS!

**DO YOU HAVE ANY
QUESTIONS?**

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EXERCISE 1

When a group of similar cells work together, it is called:



A

Nucleus

C

Vesicle

B

Tissue

D

Cell Membrane

EXERCISE 2

_____ stores and transports materials like nutrients



A Cytoplasm

C Vesicle

B Nucleus

D Organelles

EXERCISE 3

_____ covers and protects tissue underneath it



A

Endoplasmic
Reticulum

C

Epithelial Tissue

B

Homeostasis

D

Golgi body/apparatus