





MYP 4 Biology – Unit 1 Overview

Unit Title: How is Life Organized?

- **Key Concept:** Relationships
- **Related Concepts:** Patterns, Function
- **Global Context:** Identities and Relationships



What You Will Learn

-  How the parts of an organism work together to together to make it what it is.
-  How scientists classify living things into groups. groups.
-  How to decide whether something is alive or not. or not.
-  Whether humans might one day create artificial life.

Key Questions

Factual:

- What are the characteristics of living things?
- What are cells and what do they do?
- How do different cells, tissues, and organs work?
- How are living things grouped?

Conceptual:

- What makes something alive?
- Are viruses alive?
- How does cell structure affect its job?

Debatable:

- Should scientists reclassify organisms with new evidence?
- Are humans a special form of life?
- Could we create artificial life?

Key Words

Embryonic

Relating to an embryo or the development of an embryo

Hierarchy

A system where items are ranked according to levels of complexity

Multicellular

Consisting of many cells

Organization

The arrangement of parts in a structured whole

Physical

Relating to the body or material things

Unicellular

Consisting of a single cell

Approaches to Learning Skills



Critical Thinking

Ask questions, analyse ideas, make connections.



Creative Thinking

Come up with new ideas and solutions.



Organization

Plan your work and manage your time.

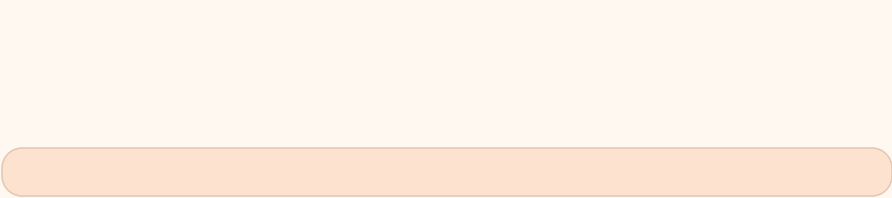


Learner Profile Focus

Thinker

Use critical and creative thinking to solve problems and make good decisions.

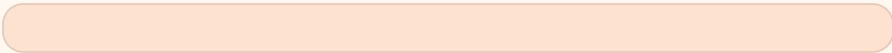
How You'll Be Assessed



Criterion A
Knowing and Understanding



Criterion C
Processing and Evaluating



Criterion D
Reflecting on the Impacts of Science



What You'll Do

1

Identify living and non-living things.

Explore the characteristics that define life and distinguish between living and non-living entities.

2

Explore cells under a microscope.

Observe different cell types and structures to understand cellular organization.

3

Classify organisms into groups.

Learn taxonomic classification systems and how to categorize living things.

4

Debate whether artificial life is possible.

Discuss the ethical and scientific implications of creating synthetic life forms.