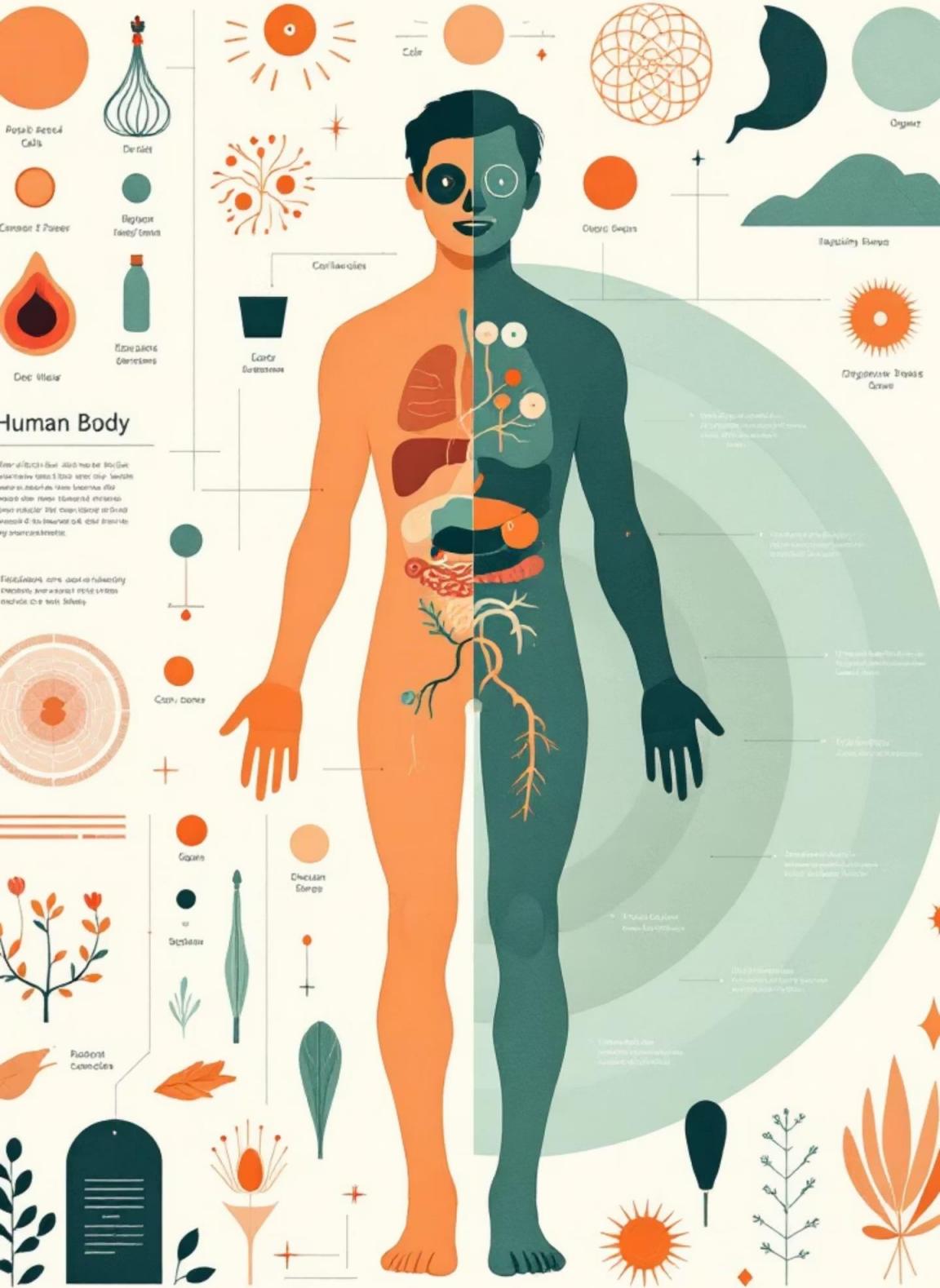


# MYP 4 Biology – Unit 1 Overview

**Unit Title:** How is Life Organized?

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

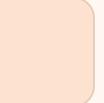




# Statement of Inquiry

Your identity is shaped by the relationship between the different levels of organization in your body. These levels, although different in complexity, share patterns and functions with all life on Earth.

# 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.
-  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.