

## Study Guide: Chapter 1 – Studying Life

What unique traits do all forms of life share?

All life organisms:

- are composed of a consistent set of chemical compounds, mainly carbon-based, fatty acids, nucleic acids, and amino acids.
- are made up of cells
- use molecules obtained from the environment to synthesize new biological molecules
- extract energy from the environment and use it to do work
- regulate their internal environments
- contain genetic information – genomes – that enables them to develop, maintain themselves, function, and reproduce
- use a universal molecular code to build proteins from their genetic information
- exist as populations that evolve over time

What are the macromolecules of life? What is the central dogma?

The macromolecules of life are: nucleic acid, proteins, liposomes (and carbohydrates)

The central dogma is that all living organisms need blueprint, nucleic acids (for humans ex. DNA) to make various essential molecules in our body, especially proteins.

How long ago did the planet Earth form?

Earth formed between 4.5 and 4.6 billion years ago

What are the three domains of life?

Archaea, Bacteria, Eukarya

What is taxonomy and how are scientific names of organisms given? How are they written?

In biology, taxonomy is the scientific study of naming and classifying groups of living organisms based on shared characteristics. It's called binomial nomenclature, which means that scientists give two Latinized names to the organisms. The first part identifies the species' genus, a group of species that share a recent common ancestor, the second part identifies the particular species within the genus. For example, *Homo sapiens*.

In scientific writing, the genus's first letter is written in capital letter, the first letter of species is written in lower case.

What is a phylogenetic tree and what types of data can be used to construct them?

A phylogenetic portrays the evolutionary histories of the different groups of organisms, evidence from fossils, structures, metabolic processes, behaviour, and molecular analysis of genomes

Be familiar with the terms chemotrophs, phototrophs, heterotrophs, autotrophs, lithotrophs, aerobic and anaerobic.

- chemotrophs: an organisms that obtain energy by the oxidation of reduced compounds
- phototrophs: an organism that can use visible light as a primary energy source for metabolism

# Miracle Of Life Study Guide Answers

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