

## Module 1: Introduction to Biology

This document is my notebook. I think it is the only really good one I have. It has all the information I need right at my finger tips.

### Chapter 1

What is the definition of biology? Biology is the study of life and living organisms and their interactions with the environment.

What is the definition of life? Life is the state of being alive.

What are the characteristics of life? Life is characterized by the following: 1. Organization: Life is organized into a hierarchy of levels, from molecules to the whole organism. 2. Metabolism: Life takes in energy and matter from the environment and uses it to build and maintain the organism. 3. Growth and Development: Life grows and develops over time. 4. Reproduction: Life reproduces, passing on its genetic information to its offspring. 5. Response to the Environment: Life responds to changes in its environment.

What is the difference between a cell and an organism? A cell is the basic unit of life, while an organism is a living thing that can carry out all the functions of life.

What is the difference between a prokaryotic cell and a eukaryotic cell? A prokaryotic cell is a simple cell with a single nucleus, while a eukaryotic cell is a more complex cell with a nucleus and other organelles.

What is the difference between a plant cell and an animal cell? Plant cells have a cell wall and a large central vacuole, while animal cells do not.

What is the difference between a plant and an animal? Plants are autotrophic, while animals are heterotrophic.

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### Chapter 2

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# Mcb 2010 Lab Practical Study Guide

**A Loxley**



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