

## Chapter 1-4 study guide

### CHAPTER 1: AN INTRODUCTION TO BIOLOGY

#### 1.1 Levels of Biology

- Explain how life can be viewed at different levels of biological complexity
  - Atoms
    - All matter, smallest unit of an element that has the chemical properties of the element.
  - Molecules/ macromolecules
    - Made up of two or more atoms bonded together.
    - Many molecules bonded together to form a polymer such as polypeptide are macromolecules-> carbohydrates, proteins, and nucleic acids.(DNA &RNA)
  - Cells
    - Molecules surrounded by membrane
    - Smallest/simplest unit of life
    - Unicellular (bacteria)
    - Multicellular (plants & animals)
  - Tissue
    - Many cells of Same type
      - Ex- muscle tissue
  - Organs
    - Two types of tissue working together
      - Ex- heart
  - Organisms
    - All living things
    - Each belongs to a species
  - Species
    - Related group of organisms that share a distinct form and set of attributes in nature
    - The members of the same species are closely related genetically.
  - Population
    - Organisms of the same species occupy the same environment.
  - Community
    - An assemblage of populations of different species
    - The type found in a community are determined by the environment and by the interactions of a species with each other.
  - Ecosystem
    - Formed by interactions of a community of organisms with their physical environment
  - Biosphere

# General Biology College Study Guide

**Chao Zhang**



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