

## Biology

### Unit 1 – Introduction to Biology STUDY GUIDE

## LEARNING GOALS

#### Essential Skills Objectives

- 1.1. Be able to identify and explain the characteristics of living things.
- 1.2. Be able to identify the hierarchical levels of organization of life from molecules and atoms to organisms.
- 1.3. Be able to identify the processes, patterns, and functions of each of the 4 macromolecules.

#### Review Questions

1. How and why do the 4 macromolecules of life?

**Carbs** → are the most abundant life

**Monomers** → ability to monomeric subunits called monosaccharides

**Polymers** → ability to polymerize together

**Monomers** → ability to combine and polymerize into polymers and monomers

**ATP/ADP** → generate chemical potential for driving reactions

2. How do examples of homeostasis in a human?

**Homeostasis examples** → body temperature, water levels, blood sugar etc.

3. How does metabolism relate to growth and movement?

**Metabolism** provides the organisms with the energy needed to grow and move.

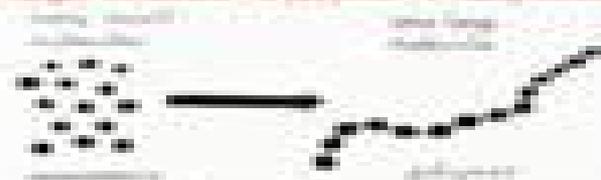
4. How and why do you describe the organization of life starting with the smallest unit of matter?

**Atoms** are the smallest unit of matter → atoms make molecules → molecules make organelles

**Cells** are made up of organelles → groups of cells working together form tissues → multiple types of tissues form an organ system → Multiple organs work together to form organ systems → Organisms are made up of interacting organ systems → A group of organisms of the same species form the same function make up a population → A community is made up of all of the populations of different species in an area → An ecosystem is made up of the community and all of the abiotic components in an area → A biosphere includes all of the ecosystems on the planet.

5. What is the difference between a monomer and a polymer? (Draw a picture to explain)

**A monomer** is a single unit of a larger molecule. **A polymer** is many monomers bonded together.



6. Explain the process of dehydration synthesis and hydrolysis. Use the terms monomer and polymer in your explanation.

**Dehydration synthesis** is a reaction whereby two monomers react. **Monomers** are joined together to form a polymer.

# Modern Biology Study Guide Section 49 Answer

**JG Myers**



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