

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 for growth and movement

ATP/Phospho → 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 organism with the energy needed to grow and move.

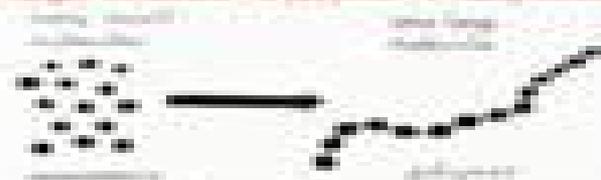
4. How and why do you describe the organization of life starting with the smallest unit of matter?

Atoms are the smallest unit of matter. → Atoms make molecules. → Molecules make up organisms.

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 in the same location 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. → Biologists understand all the more about 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 to help explain.

Dehydration synthesis is a reaction in which two monomers are joined together to form a polymer.

Modern Biology Study Guide Section 49 Answer

G Psacharopoulos



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