

Fold along the line and glue this side down in your Interactive Science Notebook.

Chapter 2: Biochemistry



Learning Objectives: There is a purpose of synthesis and breakdown of macromolecules in an organism. Energy is used in the maintenance, repair, growth, and production of tissues. Certain properties of water sustain life (for example: polarity, cohesion, solubility).

Key Concepts:

Carbon Chemistry
pH

Elements in Living Things
Properties of Water

Molecules and Chemical Bonds
Macromolecule Structure & Functions

Essential Questions:

1. Why is carbon such a unique and important element that makes up life's molecules?
2. What makes water a unique compound?
3. How is pH important to living things?
4. What are the functions of the four groups of macromolecules?
5. What are the general structures/functions of the 4 groups of organic molecules?
6. What foods contain the 4 major groups of organic molecules?
7. How does one know that enzymes speed up chemical reactions?
8. How are rates of enzyme activity in cells affected by various factors such as pH or temperature?

Vocabulary: (+) = Can explain it; (-) = Only heard it; 0 = No idea

Page	Term	Pre	Post	Memory Clue
	1. covalent bond			
	2. hydrogen bond			
	3. polarity			
	4. universal solvent			
	5. solution			
	6. solute			

