

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period: \_\_\_\_\_

**Biology - Chapter 2 Outline and Objectives: The Chemistry of Life**

Big Idea (pp. 32-33): \_\_\_\_\_

SECTION 2.1 TITLE (pp. 34- 39): \_\_\_\_\_

Key Question:
Key Question:
Key Question:
Key Question:

Vocabulary Terms (x11)	Examine figure 2-1. Carbon has an atomic # of 6. How many protons, neutrons and electrons does it have?	In the space below, draw a diagram of a helium atom, which has an atomic # of 2.	Examine figure 2-3. What differs between Carbon-12, Carbon-13, and Carbon-14? (These are considered isotopes)
	Protons _____ Neutrons _____ Electrons _____		What components of these isotopes are the same?

SECTION 2.2 TITLE (pp. 40-44): \_\_\_\_\_

Key Question:
Key Question:
Key Question:

Vocabulary Terms (x12)	Use figure 2-6 to draw a water molecule in the space below. Read pages 40-41. How does the structure of water contribute to its unique properties?	Examine figure 2-9. What happens to the sodium ions and chloride ions in the solution?

SECTION 2.3 TITLE (pp. 45-49): \_\_\_\_\_

<b>Key Question:</b>
<b>Key Question:</b>

<b>Vocabulary (x9)</b>	<p><b>Examine figure 2-13 on page 46. How are monomers similar to links in a chain?</b></p> <hr/> <hr/> <hr/>
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Use section 2.3 to complete the following table.

Macromolecule	Elements Present	Function
<b>Carbohydrates</b>		
		Used to store energy and make up cell membranes.
<b>Proteins</b>		
	<b>C, H, O, N, P</b>	

SECTION 2.4 TITLE (pp. 50-53): \_\_\_\_\_

<b>Key Question:</b>
<b>Key Question:</b>
<b>Key Question:</b>

<b>Vocabulary (x7)</b>	<p><b>Energy is needed for reactions to occur. Use figure 2-20 to answer the following question. How do the energy of the reactants and the energy of the products differ between an energy absorbing reaction and an energy releasing reaction?</b></p> <p><b>Energy absorbing:</b> _____</p> <hr/> <p><b>Energy releasing:</b> _____</p> <hr/>
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**Examine figure 2-21. What effect do enzymes have on reactions?**

