

## Unit Planner

### Biochemistry

<b>Date</b>	<b>Day</b>	<b>Information Covered ~ Assignments ~ Homework Due</b>
Wed 9/28	F	Characteristics of Water, Water WS  <b>HW: p171 Vocab – Sect 3 (10)</b>
Fri 9/30	H	Carbon Compounds, Condensation/Hydrolysis Reactions, Monosaccharides, Disaccharides, Carbon Compounds WS
Mon 10/3	A	Polysaccharides, Lipids, Start Macromolecule Review WS
Tues 10/4	B	Identifying Organic Compounds Lab (50)
Thurs 10/6	D	Proteins, Start Enzymes, Continue Macromolecule WS
Fri 10/7	E	Finish Enzymes, Enzyme WS (50)  <b>HW Due: Amino Acid HW (10)</b>
Tues 10/11	F	Quiz (30), Nucleic Acids, Finish Macromolecule Review WS  <b>HW: p167 #1-5 &amp; p170 #1 (10)</b>
Thurs 10/13	H	Review, WS Due (70)
Fri 10/14	A	Jeopardy
Mon 10/17	B	Protein Concentration Lab (50)
Wed 10/19	D	Test: Biochemistry (200)

#### **Essential Questions:**

Why are water molecules polar and how does polarity lead to the unique properties of water?

How are polymers formed and broken down?

What are the functions of each group of organic compounds?

How does the structure of a macromolecule affect its function?

What is the role of enzymes in the management of life processes in an organism?

#### **Massachusetts Curriculum Frameworks:**

- 1.2 Describe the basic molecular structures and primary functions of the four major categories of organic molecules (carbohydrates, lipids, proteins, nucleic acids).
- 1.3 Explain the role of enzymes as catalysts that lower the activation energy of biochemical reactions. Identify factors, such as pH and temperature, that have an effect on enzymes.