

Unit Planner

Biochemistry

Date	Day	Information Covered ~ Assignments ~ Homework Due
Tues 9/27	E	Characteristics of Water, Water WS HW Due: p56 Vocab – Sect 2&3 (20)
Wed 9/28	F	Scientific Method Lab – Part II (100)
Thurs 9/29	G	Carbon Compounds, Condensation/Hydrolysis Reaction, Monosaccharides, Disaccharides, Carbon Compounds WS
Mon 10/3	A	Polysaccharides, Lipids, Start Macromolecule Review WS HW Due: p43 #1, p48 #1-5 (10)
Tues 10/4	B	Proteins, Start Enzymes, Continue Macromolecule WS
Wed 10/5	C	Finish Enzymes, Enzyme WS (50) HW Due: Amino Acid HW (10)
Fri 10/7	E	Quiz (30), Nucleic Acids, Finish Macromolecule Review WS HW Due: p51 #1-6, p53 #1-5 (20)
Tues 10/11	F	Identifying Organic Compounds Lab (50)
Wed 10/12	G	Review, WS Due (70)
Fri 10/14	A	Jeopardy
Mon 10/17	B	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.