

## Biology Unit 2 Calendar

### Biochemistry

Dates	Classroom Activities	Homework
Sep 5/6	EQ: How are ionic and covalent bonds formed? What is the difference between a chemical and a physical change? Starter: Go over tests/Stamp Notes <ul style="list-style-type: none"> <li>Finish Bonding Activity</li> <li>Bonding Basics worksheet</li> <li>Chemical Reactions/Physical and Chemical Changes Notes</li> </ul>	Physical and Chemical Changes Practice on GC
Sep 7/8	Starter: Review Physical and Chemical Changes Questions <ul style="list-style-type: none"> <li>Properties of Water Notes</li> <li>Comparison of Polar and Nonpolar Liquids Lab</li> </ul>	Do Intro to Macromolecules Assignment on GC (instructions in assignment)
Sep 11	EQ: How are carbohydrates and lipids used in the body? <ul style="list-style-type: none"> <li>Review Notes</li> <li>Identifying Lipids Activity/Notes</li> </ul>	Do Proteins and Nucleic Acids Assignment on GC
Sep 12/13	EQ: What is the structure of proteins? How is that related to their function? Starter: on board <ul style="list-style-type: none"> <li>Review Notes</li> <li>Create Lab Report Rubric as a class</li> <li>Modeling Polypeptides Activity/Notes and Summary</li> <li>Begin Questions/Procedure for Catalase Lab</li> </ul>	Do Enzymes Assignment on GC
Sep 14/15	EQ: How do enzymes speed up chemical reactions? What environmental factors affect enzyme properties? Starter: Stamp Notes/Bonds Manipulative <ul style="list-style-type: none"> <li>Review Notes/Notes on Factors that impact Enzyme function</li> <li>Enzyme Modeling Intro</li> <li>Toothpickase Lab</li> </ul>	Do DNA Structure Assignment on GC
Sep 18	EQ: What is the basic structure of DNA? How and why does DNA replicate? Starter: Stamp HW <ul style="list-style-type: none"> <li>Review DNA Structure and do Replication Notes</li> <li>DNA Structure and Replication Modeling Activity</li> </ul>	Enzyme T-shirt Art (Activity #4 in INB)
Sep 19/20	EQ: What environmental factors impact the function of proteins? <ul style="list-style-type: none"> <li>Starter: DNA Foldable</li> <li>Perform lab Procedure/collect Data for Catalase Lab</li> <li>Work on Lab Report/Finish DNA Modeling Activity</li> </ul>	Complete Analysis Section of Lab Report
Sep 21/22	EQ: What environmental factors impact the function of proteins? <ul style="list-style-type: none"> <li>Peer review Analysis Section of Catalase lab reports</li> <li>Work on Conclusion Section of Catalase Lab Report</li> </ul>	Finish Lab Report (due next class) Test 9-28/29

Sep 25	<p><b>EQ: How are macromolecules formed and broken apart?</b></p> <p><b>Starter: Turn in Lab Report</b></p> <ul style="list-style-type: none"> <li>• <b>Macromolecule Formation Notes and Activity</b></li> </ul>	<p><b>Test Review</b></p> <p><b>Test 9-28/29</b></p>
Sep 26/27	<p><b>EQ: Can I name functions, monomers, shapes and examples of each macromolecule?</b></p> <ul style="list-style-type: none"> <li>• <b>Finish Macromolecule Formation Activity</b></li> <li>• <b>Biochemistry Review Cranium Game</b></li> </ul>	<p><b>Test Review</b></p> <p><b>Test Next Class</b></p>
Sep 28/29	<p><b>EQ: Did I prepare adequately for this test?</b></p> <ul style="list-style-type: none"> <li>• <b>Grade INB</b></li> <li>• <b>Grade Test Review</b></li> <li>• <b>Biochemistry Test</b></li> </ul>	