

## AP Biology Unit 1: Biochemistry

## Unit Calendar

(F)= formative (P)= practice/prep (S)= summative

	Monday, 8-27	Tuesday, 8-28	Wednesday, 8-29	Thursday, 8-30	Friday, 8-31
Agenda	Lab Day 1: Chopped	Syllabus, expectations, etc.  Poster Presentation "How To"  Lab Day 2: Chopped	Meet in Computer Lab :  _____  Work on Posters- must be printed by end of class	Poster Presentations (F)  Cycle Posters (F)	Biochemistry Lecture 1: Elements of Life and Macromolecules, Origin of Macromolecules, Environmental Cycles of Macromolecules
HW	Complete student safety test (P) Fill out student info (P)	Section 1-1 Notes: Elements of Life, Macromolecules, Origin of Macromolecules, Environmental Cycles (F)			Section 1-2 Notes: Basic Chemistry, Organic Chemistry, Water
	Monday, 9-3	Tuesday, 9-4	Wednesday, 9-5	Thursday, 9-6	Friday, 9-7
Agenda	NO SCHOOL	Biochemistry Lecture 2 (part 1): Basic Chemistry, Organic Chemistry, Water  Begin Chemistry of Life Tutorial (F)	Biochemistry Lecture 3: Carbohydrates and Lipids  Finish Chemistry of Life Tutorial	FRQ 1: Chemistry of Life (P)  FRQ Peer Review (P)  Chemistry of Life Summary Posters (F)	<b>Section Assessment 1: Chemistry of Life, Carbohydrates, and Lipids (S)</b>  DNA Videos- The Discovery of DNA as the Genetic Material
HW	Section 1-2 Notes: Basic Chemistry, Organic Chemistry, Water (F)	Section 1-3 Reading & Notes: Carbohydrates and Lipids (F)	Section 1-4 Notes & Reading: Nucleic Acid Structure & DNA Replication (F)  Study for Section Assessment 1		Review Section 1-4 Notes
	Monday, 9-10	Tuesday, 9-11	Wednesday, 9-12	Thursday, 9-13	Friday, 9-14
Agenda	Biochemistry Lecture 4: Nucleic Acid Structure DNA Replication	Video: DNA Replication  DNA Replication Tutorial (F)	Review of DNA Replication  Complete DNA Replication Tutorial	FRQ 2: Nucleic Acids and DNA Replication (P)  FRQ Peer Review (P)  Mid Unit Review	<b>Section Assessment 2: Nucleic Acids &amp; DNA Replication (S)</b>  Video: Preview of Protein Synthesis
HW	Section 1-5 Notes and Reading: Protein Synthesis and Structure (F)			Study for Section Assessment 2	Section 1-6 Reading & Notes: Energy Transformations & Enzymes

	Monday, 9-17	Tuesday, 9-18	Wednesday, 9-19	Thursday, 9-20	Friday, 9-21
Agenda	NO SCHOOL	Biochemistry Lecture 5: Protein Synthesis and Structure  Begin Protein Synthesis Tutorial (F)	Complete Protein Synthesis Tutorial (F)	FRQ 3: Protein Structure  FRQ Peer Review  Biochemistry Lecture 6: Energy Transformations & Enzymes	<b>Section Assessment 3: Protein Synthesis &amp; Structure (S)</b>  Biochemistry Lecture 6 (cont.): Energy Transformations & Enzymes
HW	Review Protein Synthesis for Tuesday 9-18  Section 1-6 Reading & Notes: Energy Transformations & Enzymes (F)		Review Protein Structure	Study for Section Assessment 3	Review Enzyme Notes
	Monday, 9-24	Tuesday, 9-25	Wednesday, 9-26	Thursday, 9-27	Friday, 9-28
Agenda	Enzyme Tutorial  Enzyme Tutorial Presentations (F)	Lab Day 1: Enzyme Activity	NO SCHOOL	Lab Day 2: Enzyme Activity	HALF DAY SCHEDULE  Lab Debrief and Calculations
HW	Prelab: Enzyme Activity	Review Data and Complete Calculations for Lab Day 1		Work on Formal Lab Reports- bring electronic copy on Monday 10-1 (introduction, procedure, and some data should be completed (P))	
	Monday, 10-1	Tuesday, 10-2	Wednesday, 10-3	Thursday, 10-4	Friday, 10-5
Agenda	Meet in Computer Lab:  Additional Lab Debrief & Work on Lab Reports	Lab Report Due (F)  Review Enzymes	FRQ 4: Enzyme Activity (P)  FRQ Peer Review (P)  Unit 1 Review	<b>Section Assessment 4: Energy Transformations and Enzymes (S)</b>  Final Day to Submit Unit 1 Reassessment  Unit 1 Review	<b>Unit 1: Biochemistry Exam (S)</b>  Final Day to Submit Enzyme Activity Lab Report
	Finish Formal Lab Report: Due Tuesday 10-2	Review Enzymes Study for Unit 1 Exam			TBA