


8TH GRADE HONORS BIOLOGY 2023-2024

1st Quarter Syllabus – Mrs. Melissa Specker Honors Biology

Topics: Lab Safety & Equipment; biological organization; atoms, compounds, & bonding; properties of water; pH; macromolecules; cell structure and function; feedback mechanisms, cellular processes and homeostasis; cell membrane

TOPIC	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Building positive classroom environment *Lab Safety Biological Organization Lab Introduction	Aug 7 WELCOME Class introduction: Expectations, Rules and Procedures, Getting to Know You	8 Lab and School Safety Building positive classroom environment Getting to Know You	9 Syllabus Review Parent Letter Biological Organization	10	11 Lab Introduction
Lab Safety Lab Practical Atoms, Compound, Molecules	14	15 Lab Safety Quiz Lab Safety Contract DUE	16 Lab Practical Assessment SF Research Readiness Form Due	17 Atoms, Compounds, Molecules	18
Atoms, Compounds, Molecules Bonding Properties of Water pH, acids and bases Lab – Thirsty for Water	21 Types of Bonds	22 Properties of Water	23 SF Ideas Checkpoint	24 pH, Acids and Bases	25
Atoms, Compounds, Molecules Bonding Properties of Water pH, acids and bases Macromolecules	28	29 Quiz – atoms, compound, molecules, bonding, water, pH	30 TEST – atoms, compounds, molecules, bonding, water, pH SF Ideas Form Due	31 Macromolecules	Sept 1
Macromolecules	4 No School Labor Day Holiday 	5	6 SF Proposal Form Due	7	8
Macromolecules Enzymes Lab - Enzymes	11	12	13	14 Quiz – macromolecules, enzymes	15 TEST – macromolecules, enzymes
Cell structure and function	18 Cell structure and function	19	20	21	22
Feedback mechanisms, cellular processes, homeostasis, cell transport Lab – Osmosis and diffusion	25 Feedback mechanisms, cellular processes, homeostasis, cell transport	26	27 SF Research Plan Due	28	29
Cell Membrane and motility	Oct 2	3 Quiz – Cell structure & function, feedback, cell transport	4 TEST– Cell structure & function, feedback, cell transport	5 Cell Membrane and Motility	6 Last Day of Quarter

All dates are tentative and could change.

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First Quarter Major and Minor Grades and DUE Dates

Dates to Remember: Science Fair Parent Meeting 8/15/23 at 5:30pm

Textbook: *Biology* by Campbell

Assignment

Date DUE

1. Lab Safety Quiz (m)	8/15
2. Lab Practical (m)	8/16
3. Lab: Thirsty for Water (m)	Week of 8/21
4. Atoms, Compounds, Bonds, Water, and pH Quiz (m)	8/29
5. Atoms, Compounds, Bonds, Water, and pH Test (M)	8/30
6. Lab: Enzymes (m)	Week of 9/11
7. Macromolecules and Enzymes Quiz (m)	9/14
8. Macromolecules and Enzymes Test (M)	9/15
9. Lab: Osmosis and Diffusion (m)	Week of 9/25
10. Cell Structure and Function, Feedback Mechanisms, Cell Transport quiz (m)	10/3
11. Cell Structure and Function, Feedback Mechanisms, Cell Transport Test (M)	10/4
12. Avg of Homework, Bell Ringer, Class work	10/6

M = major grade m = minor grade

The Homework/Bell Ringer/Class work grade will be one minor grade that is an average of all your student's homework, class work, and bell ringer assignment grades for the entire quarter.

****Retest Policy****

This is a honors biology course for high school credit. Students are expected to complete assignments and prepare for tests. Retesting will not occur.