



## Ocean City High School Summer Assignment 2022

<b>Course</b>	Honors Biology	<b>Teacher</b>	Catherine Georges Ian Keyser Aashini Patel
<b>Email</b>	<a href="mailto:cgeorges@ocsdnj.org">cgeorges@ocsdnj.org</a> <a href="mailto:ikeyser@ocsdnj.org">ikeyser@ocsdnj.org</a> <a href="mailto:Apatel@ocsdnj.org">Apatel@ocsdnj.org</a>	<b>Due Date</b>	1 <sup>st</sup> day of 2022-2023 school year
<b>Standards</b>	HS-LS6		
<b>Topic</b>	Chemistry and Biochemistry		
<b>Purpose</b>	Review of chemistry concepts essential to biology as well as introduction to biochemical concepts.		
<b>Text/Novel(s) &amp; Brief Description</b>			
		Biology: Miller and Levine Workbook (pdf of selected pages)	
<b>Approximate Time on Task</b>			
		5-9 hours –depending upon individual	
<b>Suggested Timeline</b>			
		3 days –depending upon individual	
<b>How It Will Be Assessed</b>			
		Worksheets will provide an overview of major concepts related to chemistry and biochemistry. Completion of worksheets and viewing of supplemental YouTube videos will serve as a review of basic chemistry concepts and enforce important biochemistry concepts to be addressed in the course.	

*Welcome to Honors Biology! This course is designed to be a challenging but rewarding course investigating the many aspects of life. Be prepared to synthesize and apply concepts learned in this course to the real world. In preparation for this course, please follow the instructions below. This assignment will review and possibly introduce you to important chemistry concepts used in biology. This assignment will not be graded but understanding of the topics will be assumed on the first day of class so that we can delve deeper throughout the year.*

*\*please see next page for assignment -note hyperlinks\**

## Chapter Two. The Chemistry of Life.

- Watch the following YouTube videos as needed to investigate important chemical concepts in biology
- [Atomic Hook-Ups - Types of Chemical Bonds: Crash Course Chemistry #22](#)
- [Polar & Non-Polar Molecules: Crash Course Chemistry #23](#)
- [Biological Molecules - You Are What You Eat: Crash Course Biology #3](#)
- Print out and complete the [Chapter 2 WSS](#)
- The Chapter 2 worksheets will be used as reference during the school year of basic biochemistry concepts
- You are expected to be familiar with the main concepts of this chemistry in preparation for an honors-level biology course, this assignment will not be graded
- Electronic textbooks will be distributed within the first week of school
- Please contact Mrs. Georges [cgeorges@ocsdnj.org](mailto:cgeorges@ocsdnj.org), Mr. Keyser [ikeyser@ocsdnj.org](mailto:ikeyser@ocsdnj.org), or Ms. Patel [apatel@ocsdnj.org](mailto:apatel@ocsdnj.org) with any questions (emails replies will be within a week over the summer)