

## ***Biochemistry 37/39 Summer Assignment 2023-24***

### **Welcome to Biochemistry!**

I am excited to begin this course with all of you, and am working hard to make sure that we have lots of fun labs planned. Biochemistry is not an AP course, but it is designed like one. Your daily participation in and preparation for class are critical to your success. The “Big Ideas” we will cover this year are outlined below.

Your summer assignments are meant to be a review of the chemistry and biology concepts that are foundational for understanding how these disciplines intersect in biochemistry. They will be due the first week of school.

**Please join my google classroom to access the summer assignments:** [\*\*i7x7zls\*\*](#)

I'm looking forward to seeing you in class this fall!

Best,

Dr. Bower-Phipps

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### **Big Ideas:**

1. **Chemistry is the Logic of Biological Phenomena** – the properties and processes of biological molecules and systems can be attributed to chemical properties.
2. **Biological Molecules Play Essential Roles in the Cell** – biological systems utilize molecular building blocks for interrelated structure and function.
3. **Molecule Structure Correlates with Function**– biological systems rely on enzyme kinetics, specificity, and regulation for function.
4. **Biological Molecules are Utilized for Cellular Information Transfer** – living systems store, retrieve, transmit, and respond to information essential to life processes.