

**Welcome to AP Biology!** I am thrilled you have chosen to take this course! This is a BIG course and I want to ensure that you are prepared as possible for the AP exam in May 2021. Completing the summer course work is essential to being successful.

We will spend a very small amount of time (a couple of days) at the beginning of the year in September on these topics, as I am expecting you to be studying this throughout the summer. There are 8 units in this course and this summer work will cover Unit 1: Chemistry of Life.

Please study “Unit 1” in your *5 Steps to a 5 AP Exam Prep Guidebook*. This book can be easily purchased from Amazon or your local bookstore (when they open...). Once you sign up for the course, please purchase this book as soon as possible. Chapters 1-5 in the textbook also align with the topics in unit 1 and can be used for supplement reading. Focus on the prep guidebook. There will be a test on the summer work in the first week of the school year in the fall.

### Unit at a Glance

- » Topic 1.1 Structure of Water and Hydrogen Bonding
- » Topic 1.2 Elements of Life
- » Topic 1.3 Introduction to Biological Macromolecules
- » Topic 1.4 Properties of Biological Macromolecules
- » Topic 1.5 Structure and Function of Biological Macromolecules
- » Topic 1.6 Nucleic Acids

### Vocabulary

Make flashcards with these terms. \*\*\*Research shows that writing increases the retention of information over typing. I highly recommend making REAL flashcards, not digital.\*\*\*

Macromolecule	Hydrogen bond
Lipid	Polar
Fatty acid	Nonpolar
Carbohydrate	Cohesion
Monosaccharide	Adhesion
Polysaccharide	Surface tension
Peptide bond	Hydrolysis
Amino acid	Dehydration Synthesis
Nucleic Acid	Monomer
Nucleotide	Polymer
Sugar-phosphate bond	Phospholipid
Ribose	Semiconservative replication
Deoxyribose	