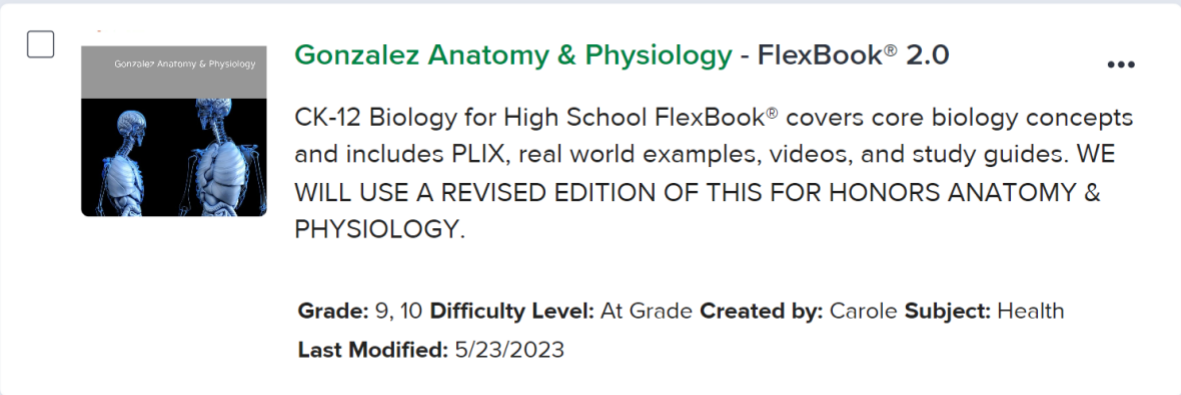


Honors Anatomy and Physiology Summer Work
Mrs. Gonzalez
gonzalezc@maryvale.com

Summer 2023

Happy Summer! In order for us to study every system of the human body during the next school year, we need to minimize the time spent in reviewing biochemistry and essential cell structures and processes. To this end, we will use an online textbook with practice assignments that are submitted electronically to a (free) online class.

This is what the online text looks like:



The screenshot shows a digital textbook entry. On the left is a small thumbnail image of a human skeleton. To its right, the title 'Gonzalez Anatomy & Physiology - FlexBook® 2.0' is displayed in green. Below the title is a descriptive paragraph: 'CK-12 Biology for High School FlexBook® covers core biology concepts and includes PLIX, real world examples, videos, and study guides. WE WILL USE A REVISED EDITION OF THIS FOR HONORS ANATOMY & PHYSIOLOGY.' At the bottom of the entry, metadata is provided: 'Grade: 9, 10 Difficulty Level: At Grade Created by: Carole Subject: Health Last Modified: 5/23/2023'.

This is how you join the CK-12 Honors Anatomy & Physiology class:

Joining this allows me to share content with you and keep track of how well you are performing and progressing through the practice assignments.

To join:

1. Go to www.ck12.org.
2. Click join to create an account, or Sign in.
3. Click Classes.
4. Click Join a Class.
5. Enter code: 0y1bs

You can also join the class by using this

link: <https://www.ck12.org/join/group/?accessCode=0y1bs>

The summer work is equivalent to about 2 textbook chapters. Although there may appear to be many (20) assignments, each one involves 1-3 pages of reading followed by a practice “quiz” to check your knowledge and understanding. You will not be able to progress through the practice quizzes without answering questions correctly. You should ultimately achieve full credit on every quiz. Given that this is an Honors level course and that these topics are studied in 9th grade Biology and 10th grade Chemistry,

there is an expectation that you will work independently to achieve proficiency on each topic.

GENERAL INSTRUCTIONS:

1. Use the instructions above to join the online class site.
2. Progress through the reading assignments in order, starting with 1.4 (Chapter 1, Section 4) and progressing through the sections in order.
3. As you click on each assignment, it will open with the reading. When you have completed the reading you can answer the questions.

As you are working through the reading assignments, please make note of areas of difficulty or weakness for you.

In September, we will investigate these topics through labs, case studies and other activities. Then, there will be a test on this material in mid-September.

READING AND ASSIGNMENTS TO BE COMPLETED:

Chapter 1

- 1.4 Significance of Carbon
- 1.5 Carbohydrates
- 1.6 Proteins
- 1.7 Lipids
- 1.8 Nucleic Acids
- 1.9 Biochemical Reactions
- 1.10 Energy and Biochemical Reactions
- 1.11 Types of Biochemical Reactions
- 1.12 Enzymes
- 1.13 Enzyme Function
- 1.14 Water and Life
- 1.15 Acids and Bases

Chapter 2

- 2.1 Parts of the Cell
- 2.3 Phospholipid Bilayer
- 2.4 Membrane Proteins
- 2.5 Cytoplasm and Cytoskeleton
- 2.6 Nucleus
- 2.7 Ribosomes and Mitochondria
- 2.8 Cell Structure
- 2.10 Cell Organization

