

AP Environmental Science Textbook Information and Summer Assignments

- **Text:** Friedland, Andrew and Rick Relyea. *Environmental Science for the AP® Course*. 3rd ed., New York, NY: Bedford, Freeman, and Worth, 2019.
 - ISBN-13: 978-1-319-11329-2

1. To order your own new textbook follow the following steps

- **How to order:** Use the above ISBN, Author, Title, and Edition of the texts you need to purchase. Once you have this information, please reach out to the BFW Warehouse. You can provide the product information that the school or that your teacher has provided for you, as well as your payment information on the phone with the customer support team or through email (whatever is preferable for you)
 - Bedford, Freeman, & Worth Ordering Information:
 - MPS (BFW & Macmillan Learning Warehouse)
 - Address:
 - 16365 James Madison Highway Gordonsville, VA 22942
 - Phone & Fax Your Order: Toll Free: 540-672-7744 Fax: 540-672-7542

2. If you wish to rent a textbook from BG, please see Mrs. Butler before the end of the year

3. Additional Resources to Purchase

- Your textbook comes with online resources that are very helpful and will be part of your class assignments. Animations, simulations, practice quizzes and instructional videos are some of the resources available. You will purchase these from the school. When they are available for purchase, you will be notified through email.
- You will need a notebook dedicated to AP Environmental Science (you will keep class notes in this notebook)
 - **I would highly recommend a 3-ring binder** with loose-leaf paper. This way you can add any additional notes easily. Also, you can store and organize any handouts provided in class.
- Students need to have a functioning calculator prior to class

Summer Assignments 2022-2023

Please note: Summer assignments are due July 29th

- The APES Course is broken up into 9 units. We will be working on these units in order.
- We will not be reading from the textbook in the same order chapters appear – we will be jumping from chapter to chapter.
- Your summer assignments will cover sections 1.1 through 1.7.

Unit 1 (Sections 1.1 – 1.7)

The following set of instructions should be completed for each section (1.1 – 1.7)

- a. Read the “**Course Introduction**” information below.
- b. Read the unit and **section objective**. This will help you determine the area of focus as you read/take notes through the chapter/modules. They can be viewed in your textbook as well as attached below.
 - i. *You will notice that some modules in your textbook will cover multiple topics. Remember, notes should be organized by topic – not modules.*
- c. Read the chapter introduction as well as the modules associated with the section you are working on (associated textbook materials for each section is listed below). **Take notes** pertaining to the section you are working on. Take a photo and then share the photo with me through Google Drive.
- d. Watch the following **videos** after completing notes for the associated sections
 - *Video links found below*
- e. Complete the **AP Practice Questions** at the end of each module. This should be handwritten on paper. Take a photo and then share the photo with me through Google Drive. (Write out the question as well as the answers)

Course Introduction

General Information:

AP® Environmental Science is designed as a freshmen college level course. As such, students are expected to keep up with all course work and materials. Success in this class will depend on the level of discipline, dedication, and effort on your part. The basic format will include the following routine:

- Student reads materials related to the section of study
- Student explores provided supplemental materials/videos
- Teacher discusses materials in class
- Class discusses materials
- Practice problems, assignments, mathematics, data analysis, laboratory activity
- Assessment of section

Once a student reads, takes notes and explores provided supplemental materials and videos he/she should be well equipped to participate in class discussion and deeper explanations of that section. Videos provided are great ways to get an additional explanation of materials, but they are not a replacement for reading the textbook or participating in class discussion.

You will be graded on all aspects of work throughout the year. Accuracy of work, work professionalism, participation, technical skills, and formal assessments. By completing the sections in the order listed above, students will be prepared for future assessments. Much of the learning throughout this course will take place on your own time as well as time in class; thus, self-discipline is critical.

Maintaining a complete and organized notebook will play a crucial role in retaining course materials. Notebooks should be organized by units and sections, for example:

- Page 1:
 - **Unit 1 – The Living World: Ecosystems**
 - Unit Objective and Major Questions
- Page 2-X:
 - **Section 1.1: Introduction to Ecosystems**
 - Notes from chapter introduction
 - Notes from associated modules
- Page Y-Z:
 - **Section 1.2: Terrestrial Biomes**
 - Notes from chapter introduction
 - Notes from associated modules
- Etc....

A syllabus and course outline will be provided at the beginning of the school year

Lessons 1.1 – 1.7 Textbook and Objective References

UNIT 1 - The Living World: Ecosystems			
Section	Title	Textbook	Objectives
1.1	Introduction to Ecosystems	Chapter 1, Module 1 Chapter 1, Module 2 Chapter 6, Module 20	Explain how the availability of resources influences species interactions
1.2	Terrestrial Biomes	Chapter 4, Module 12	Describe the global distribution and principal environmental aspects of terrestrial biomes
1.3	Aquatic Biomes	Chapter 4, Module 13	Describe the global distribution and principal environmental aspects of aquatic biomes
1.4	The Carbon Cycle	Chapter 3, Module 7	Explain the steps and reservoir interactions in the carbon cycle
1.5	The Nitrogen Cycle	Chapter 3, Module 7	Explain the steps and reservoir interactions in the nitrogen cycle
1.6	The Phosphorus Cycle	Chapter 3, Module 7	Explain the steps and reservoir interactions in the phosphorus cycle
1.7	The Hydrolic (Water) Cycle	Chapter 3, Module 7	Explain the steps and reservoir interactions in the hydrolic cycle

Lesson 1.1 – 1.7 Video Links

Section 1.1: <https://www.youtube.com/watch?v=yEgoNJdDWRg>

Section 1.2: <https://www.youtube.com/watch?v=DliF5uQmtn0&t=28s>

Section 1.3: https://www.youtube.com/watch?v=wpYZW_pV1u4&t=24s

Section 1.4: <https://www.youtube.com/watch?v=pFrFOnw8TFs>

Section 1.5: <https://www.youtube.com/watch?v=hGJkzTPcX2A>

Section 1.6: <https://www.youtube.com/watch?v=AmnVAp0aGdc>

Section 1.7: <https://www.youtube.com/watch?v=lsKLNzKK2T8>

Unit 1 Overview: <https://www.youtube.com/watch?v=qH84DhdyAH8&t=1813s>