



AP Biology!

Ocean City High School
AP Biology
Summer Assignment 2022

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| Course: | AP Biology | Teacher: | Mrs. Georges |
| Email: | cgeorges@ocsdnj.org | Due Date: | 8:00am First day of school for students 2022 |
| Standards | HS-LS1-5, HS-LS1-6, HS-LS1-7 | | |
| Topic | Science Practices and Ecology Introduction | | |
| Purpose | <p>Part I –The purpose of this assignment is to orient students with our textbook Biology in Focus, 2 ed. and with the Mastering Biology Program. Students will read a pdf of Chapter 1 of our textbook and complete the online Practice Test.</p> <p>Part II –The purpose of this assignment is exposure to ecological concepts addressed throughout the year. Ecology GoogleSlides Scavenger Hunt. Create a GoogleSlide to submit to me.</p> <p>Part III – The purpose of this assignment is to have students introduce themselves to me. Completion of a GoogleForm.</p> | | |
| Text/Novel(s) & Brief Description | This packet, pdf of Chapter 1 of textbook and GoogleForms. | | |
| Approximate Time on Task | 5-10 hours depending on student | | |
| Suggested Timeline | 4-5 days | | |
| How It Will Be Assessed | Part I & II –100% completion of online “Practice Tests” based upon Chapter 1 of Biology in Focus Textbook. Successful completion of Ecology GoogleSlide. | | |

Dear AP Biologist,

Welcome to AP Biology at OCHS! AP Biology is a comprehensive biology course that covers the equivalent of 1-2 semesters of college level biology. This course will address molecular biology and evolutionary and ecological biology. Therefore, this course requires that the student possess a level of maturity and sophistication found in the typical university undergraduate. We will use a college textbook for in class reference, a web-based textbook at home, conduct college level labs, and our tests and exams will be analogous to those administered by undergraduate professors. This level of academic rigor is likely more than you have experienced in your past studies, but in the end you will not only be prepared to successfully complete the AP exam, but you will also be ready for the style of academic study found within most college science programs.

I will NOT be “checking if you have read the material.” You must be intrinsically motivated to complete homework to keep pace. We will be using the Mastering Biology Program aligned with ‘Biology in Focus, Second Edition’ as well as AP Classroom. At the college level, it is assumed that you are self-motivated and will complete assigned work according to the syllabus. Grades will be primarily based on Mastering Biology, laboratory work and tests. We will be moving at a college pace therefore every day and every assignment counts. If you are absent from school or need clarification, you must reach out to your classmates or to me.

This summer assignment is broken into three parts. All parts will be completed through a GoogleForm <https://forms.gle/s16KKzQjzFpJGgCr7>. You must complete the entire GoogleForm in one sitting. Therefore, Part I and Part II must be completed before completing the GoogleForm.

Part I requires you to read a pdf of the first chapter of our textbook, take notes and submit a screenshot of successful completion of the Practice Test (goo.gl/CRZjvS). Part II is an Ecology GoogleSlides scavenger hunt. Part III is your opportunity to introduce yourself to me. You will share this document with me via the GoogleForm. With that in mind, it is imperative that you complete the following 3 assignments in this order

1. read Chapter 1 of Mastering Biology, take notes, complete the Practice Test and take a screenshot of the 100% correct answers
2. Complete the scavenger hunt and create a GoogleSlide of your hunt
3. Complete the GoogleForm in its entirety. This will require a file upload of Part I and Part II and completion of Part III)

Lastly, in preparation for the course, please purchase a 3” three-ring binder with lined paper (yes we will fill it). You will be taking notes from Part II and throughout the year in this binder.

DUE: September 6, 2022 (First day back to school for students)

Part I: Meet Biology in Focus: Chapter 1 of Biology in Focus with Practice Test 2-5 hrs

Access this link <https://bit.ly/2HQ6XRQ> to view a pdf of Chapter 1 of your AP Biology textbook. Read this chapter carefully. I would highly recommend taking physical notes on this information in your three-ring binder for the class. You may use other resources, if necessary, to clarify concepts. I will not collect your notes but they will be helpful as you take the Practice Test.

You will have access to the full online textbook and Mastering Biology program at the start of the school year. This information is essential to the course! Access the website goo.gl/CRZjvS for all practice tests. Take the Chapter ONE test. Take a screenshot of your Practice Test with 100% correct. You may retake the Practice Test as many times as you wish before screenshotting. You will submit your screenshot as a pdf in Part I of your GoogleForm. *This assignment will be worth 10 points.*

Part II: Meet your World: Ecology GoogleSlides Scavenger Hunt **2-3 days**

This assignment is a creative way to connect our course to your world and introduce you to biochemical and ecological concepts. Use the list below and create ONE SLIDE per term. The slide should only have the term and image (unless a very short description is needed). Do NOT reuse images and do NOT use online photos. The concepts must be found in the “real world.” There must be an object that is personal to you in every picture to show me you took these pictures (ie. a ring, keys). There are 25 terms and therefore there should be 26

slides (the first slide includes your name and a picture of your object). Be prepared to upload this GoogleSlide as Part II of your GoogleForm.

This assignment will be worth 50 points.

Ecology Terms List

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| Carbon in the environment (quick note of where the element is and in what form) |
| Nitrogen in the environment (quick note of where the element is and in what form) |
| Oxygen in the environment (quick note of where the element is and in what form) |
| Hydrogen in the environment (quick note of where the element is and in what form) |
| Lipid in the environment |
| Carbohydrate in the environment |
| Protein in the environment |
| Evidence of Nucleic Acid in the environment |
| Abiotic factor |
| Biotic factor |
| Adaptation of an animal (quick note of how this is an adaptation) |
| Adaptation of a plant (quick note of how this is an adaptation) |
| k-selected species |
| r-selected species |
| Endotherm |
| Ectotherm |
| Predation |
| Parasitism |
| Mutualism |
| Commensalism |
| Competition |
| Autotroph |
| Heterotroph |
| Prokaryote (make sure you know what this means) |
| Decomposer (make sure you know what this means) |

Part III: Meet Your Teacher - GoogleForm

<1 hour

For our course this year, we will be using Google, Mastering Biology and Schoology. It is imperative that you use a Google account (ex/ ocsdnj.org) for all online work to keep things organized.

Google Make sure you have a Google account with email access.

Part III: Submit work in “Meet Biology in Focus”, “Meet Your World” and complete GoogleForm “Meet your teacher section.” <https://forms.gle/s16KKzQjzFpJGgCr7>

NOTE: Once you start your GoogleForm, you must complete it in one session. Do *not* close the tab and don’t navigate away or your progress will be LOST.

DUE: 8:00am -First day of school 2022

If you have any questions, please contact me at cgeorges@ocsdnj.org. I will be checking my email once a week throughout the summer. Please feel free to complete these assignments before the due date if you choose.