

AP Biology

Summer Assignments 2024

Welcome to AP Biology!

Congratulations on enrolling in AP Biology. This course is designed to challenge you and deepen your understanding of the biological sciences, preparing you for the AP exam and further studies in biology. Over the summer, you'll complete several assignments to help you get a head start on the curriculum.

Reach out if you have any questions or need help, contact me via email atapalla@stdominicacad.com

Part 1: Getting Started

To access the required course materials, please join the Google Classroom and register for Pearson Mastering Biology. This will give you access to the digital textbook, slideshows, and assignments.

1. Join the **Summer 2024 AP Biology** Google Classroom
 - Log into Google Classroom and Add Class using the following code: **fz5ef23**
2. Pearson Mastering Biology Student Registration
 - Go to <https://mlm.pearson.com/enrollment/tapalla46859>
 - Create an account or sign in with your Pearson student account if you have one
 - Select the prepaid access code option and enter this code:
SSSRCC-STEAD-MUNCH-BERET-LEASH-BALES
 - Select **Go to my course**
 - Select **AP Biology Summer 2024** from My Courses

To sign in to Pearson later:

1. Go to <https://mlm.pearson.com>
2. Sign in with the same Pearson account you used before.
3. Select **AP Biology Summer 2024** from My Courses.

After completing your student registration on Pearson, log into your account. You will find your first assignment, the Mastering Biology Tutorial. This tutorial is designed to help you effectively navigate and use the Pearson platform. Throughout the year, many of your assignments will be posted and instantly graded here, providing you with immediate feedback.

Part 2: Active Reading Guide Assignments

This course is designed to be taught at a college level and covers a lot of biological content. It's essential to develop and enhance your technical reading and comprehension skills. To succeed, you will need to be willing to be challenged and put in the work that a college level class requires. Maintain a strong, consistent work ethic and stay on top of your assignments.

Instructions

- Print out the Active Reading Guides, posted on Google Classroom:
 - Chapter 1: Evolution, the Themes of Biology, and Scientific Inquiry

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- Chapter 2: The Chemical Context of Life
 - Chapter 3: Water and Life
 - Chapter 4: Carbon and the Molecular Diversity of Life
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- As you read each chapter on Pearson, answer all questions in the active reading guide, including the *Test Your Understanding* section.
 - Rather than filling out the diagrams by copying from the book, fill them out from memory and correct them using the book.
 - Packets must be neat; answers must be organized and legible. Sloppy packets and illegible writing will not be graded.
 - **Submit photos of finished packet in the appropriate drop box on Google Classroom.**
 - **Hardy copy of packet will be collected in class on Monday, September 9, 2024.**
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Part 3: Creation Assignments

Your goal is to deeply understand the concepts in these chapters, not just memorize facts. To achieve this, you need to create a learning aid for each chapter you read. Learning means connecting new ideas to what you already know and understanding their significance. At the end of the year, you will take the AP Biology College Board Exam which covers the entire year so what you are creating is a learning for understanding and review tool for now and for preparing for the AP Biology exam in May. Keep in mind, the quality and effectiveness of your preparation materials depend on your efforts and diligence.

Instructions:

- Produce **one** creation per chapter.
- **Submit a photo/copy of creations in the appropriate drop box on Google Classroom.**
- **Hard copies** of these creations are **due on Monday, September 9, 2024**

Creation Ideas:

Your creations can include, but are not limited to, the following list. **The only requirement is that you create it yourself.**

1. Concept Map – There are fantastic concept mapping tools online that are fun and easy to use! Although you can create a concept map by hand, using software makes it much easier to edit and adjust. Check out this tutorial on how to create a concept map: <https://www.youtube.com/watch?v=sZJj6DwCqSU> this link is also posted on Google Classroom.

2. Diagrams / Drawings (with annotations) – Capture key concepts by drawing and labeling them. Note: Your textbook contains diagrams and pictures for many of the important concepts. Do not simply copy the diagrams! Add something of your own to them, try connecting them or changing them in some way. Copying rarely helps anyone learn.

3. Flashcards – Often the hardest part of biology is learning all the vocabulary. To make it easier, try creating flashcards with a twist. Instead of just copying definitions, put the concepts into your own words on one side and draw pictures on the other. Then, turn it into a game by connecting the terms to explain a concept from the chapter. This way, you'll understand how they relate to each other.

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4. Table/Chart – If you feel like the main ideas of a chapter would fit well into a table format, organize ideas (again, in your own words) into a table or a chart.

5. Teach It – Put together a sequence of creative storyboards that would help you teach the chapter to a 7th grade student. Think of storyboards like comic strips.

[See Google Classroom for Creation Assignment Rubric](#)

Part 4: Pearson Assessments

Instructions:

To access your assignments, please log in to your Pearson account. For the best experience, I recommend using a laptop or desktop computer. Each chapter includes assessment questions and activities to evaluate your understanding. You'll have **two attempts** to complete each assignment. Ensure you finish the assignment in its entirety on your first attempt before proceeding to the second. Your highest score will be recorded. Don't rush—take your time!

1. Ch. 1 Assessment
 2. Ch. 2 Assessment
 3. Ch. 3 Assessment
 4. Ch. 4 Assessment
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Part 5: Interactive Labs & Post Labs

Instructions:

To access your assignments, please log in to your Pearson account. For the best experience, I recommend using a laptop or desktop computer.

1. **Scientific Method Interactive Lab and Post Lab:** Students learn the steps of the scientific method while determining whether hand soap or hand sanitizer is more effective at decreasing bacterial diversity.
 - Interactive Lab will take approximately 85 minutes and Post Lab 18 minutes
 2. **Acids and Bases Interactive Lab and Post Lab:** Students learn about pH and the pH scale through a series of activities. They learn about and collect data on pH, calcification, and coral bleaching.
 - Interactive Lab will take approximately 55 minutes and Post Lab 11 minutes
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Assignment Schedule

All assignments must be submitted by Monday, September 09, 2024 at 8:30am. Refer to each assignment for submission details. Here is a suggested pacing guide to help you stay on track with completing your summer assignments. However, you may work at your own pace.

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Assignment	Dates
1. Read through the Summer Assignments Packet 2. Join Summer 2024 AP Biology Google Classroom 3. Register for Pearson Mastering Biology 4. Complete Mastering Biology Tutorial on Pearson	June 10 - 14
Read Chapter 1: Evolution, the Themes of Biology, and Scientific Inquiry and complete the Active Reading Guide	June 17 – 19
Chapter 1: Evolution, the Themes of Biology, and Scientific Inquiry Creation	June 20 – 21 & 24
Chapter 1: Evolution, the Themes of Biology, and Scientific Inquiry Assessment on Pearson	June 25 – 27
Scientific Method Interactive Lab & Post Lab on Pearson	June 28
Read Chapter 2: The Chemical Context of Life and complete the Active Reading Guide	July 1 – 3
Chapter 2: The Chemical Context of Life Creation	July 5, 8 – 9
Chapter 2: The Chemical Context of Life Assessment on Pearson	July 10 – 12
Read Chapter 3: Water and Life and complete the Active Reading Guide	July 15 – 17
Chapter 3: Water and Life Creation	July 18 – 19, & 22
Chapter 3: Water and Life Assessment on Pearson	July 23 – 24
Acids & Bases Interactive Lab & Post Lab on Pearson	July 25
Read Chapter 4: Carbon and the Molecular Diversity of Life and complete the Active Reading Guide	July 26, 29 – 30
Chapter 4: Chapter 4: Carbon and the Molecular Diversity of Life Creation	July 31 – August 2
Chapter 4: Chapter 4: Carbon and the Molecular Diversity of Life Assessment on Pearson	August 5 – 6