

AP Biology 2018-2019

STAND BACK



I'M GOING TO TRY
SCIENCE

Supplies Needed Next Year:

- (1) Composition Book (MUST be *college ruled*, wide ruled is NOT acceptable)
- (4) *college ruled* single subject notebooks (at least 70-100 pages each)
- (1) 1inch 3 Ring Binder (4 dividers)
- Calculator (4 function, scientific or graphing is fine)
- Graph paper and regular paper (*college ruled*)
- Ruler, Color pencils
- *Blue or Black* ink pens and pencils
- *HIGHLIGHTER*
- *Bring ALL materials on the SECOND day of school!*

Expectations:

- Be motivated to learn
- Accept new challenges
- Read and study material EVERY night
- Come in for help as needed (do NOT wait until it's too late-the day before the test IS too late)
- Complete all assignments ON TIME
- Manage your time wisely

INSTRUCTIONS FOR SUMMER ASSIGNMENT

1. VISIT OUR CLASS WEBSITE:

- Become familiar with the design of the class site: <http://lacrowe3.wix.com/hortonapbio>
- Password: **Lillian13**
- Once school starts we will switch to our eClass page!

2. Join Remind101:

Mrs. Horton will be sending out reminders and tips throughout the summer, and you will be able send her messages and ask questions you may have!

- Simply text **@Horton18 to 81010** (message and data rates apply)

3. SUMMER AP BIO ASSIGNMENT OVERVIEW:

This assignment should be completed in college-ruled composition book. THE STUDENTS NAME MUST BE CLEARLY VISIBLE ON THE OUTSIDE OF THE FOLDER. NOTE: There are 3 parts, each part should have it's own section, post-it tabs are encouraged to separate sections.

- Each numbered component within a section should have a dedicated page (always start answering on the FRONT), should be well supported or described, and diagrams or graphs should accompany discussion when appropriate. When used, diagrams, models, representations and graphs should be in color, labeled, and clearly explained or supported. Always use a ruler when making graphs and tables! **Please number your pages.**
- **YOU MAY NOT PLAGARIZE ANY PART OF THIS ASSIGNMENT** – all responses should be constructed in your own words – DO NOT COPY directly from any source, including the PPT presentations! All work submitted must be original!

4. GENERAL INSTRUCTIONS FOR COMPLETION OF SUMMER ASSIGNMENT:

Items should be placed into your 3-prong portfolio folder in the following order:

- Title Page and Table of Contents
- Parts I, II, and III should each be labeled and separated (separate by either using a post-it tab or leave a blank page as a section divider).
- Each section should be handwritten in blue or black pen
- Part I: Bozeman Video Reflections-AP Biology Practices (**dedicated page** for each video reflection) and AP Bio Vocabulary
- Part II: Reading Guide Tasks for Intro Review ppt (found on website under Big Idea 1) Choose 4 of 6 tasks
- Part III: Book Study
- All materials can be found on our class website in Big Idea 1

5. DUE DATES and GRADING FOR SUMMER ASSIGNMENT:

- **Part I + Part II = Quiz Grade**
- **Part III = PROJECT GRADE**
- **DUE Third day of class, August 8th - Bonus points will be awarded for turning it early during open house**

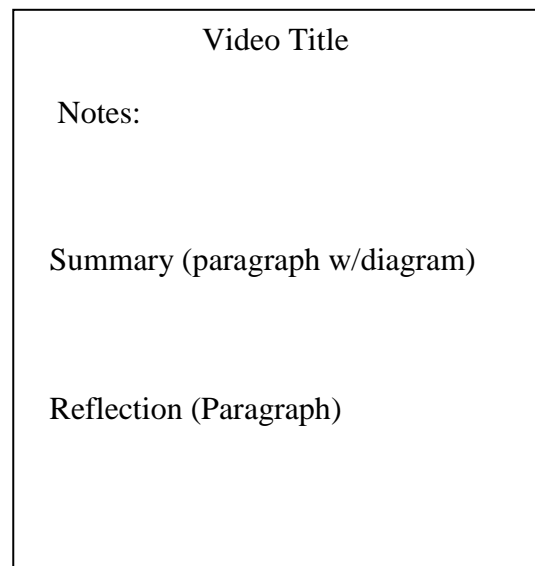
Part I: Bozeman Video Review on AP Biology Practices

A practice is a way to coordinate knowledge and skills in order to accomplish a goal or task. The AP Biology science practices enable you to establish lines of evidence and use them to develop and refine testable explanations and predictions of natural phenomena. Because content, inquiry, and reasoning are equally important in AP Biology, each learning objective combines content with inquiry and reasoning skills described in the science practices. The science practices capture important aspects of the work that scientists engage in, at the level of competence expected of you, an AP Biology student.

To review the AP Biology science practices, log onto <http://www.bozemanscience.com/ap-biology/>. Scroll down to "AP Biology Practices." Complete the video review activities listed below for the seven AP Biology practices. REMEMBER, EACH NUMBERED COMPONENT SHOULD HAVE A DEDICATED PAGE (minimum 1 full front page, maximum 1 front and back page) that includes the following components: *Notes, Summary, Diagram, Reflection*

1. Watch Bozeman Video #1: *Models & Representations*
2. Watch Bozeman Video #2: *Using Mathematics*
3. Watch Bozeman Video #3: *Scientific Questioning*
4. Watch Bozeman Video #4: *Data Collection Strategies*
5. Watch Bozeman Video #5: *Analysis & Evaluation of Evidence*
6. Watch Bozeman Video #6: *Scientific Explanations & Theories*
7. Watch Bozeman Video #7: *Scales, Concepts & Representations*

Each video page should be set up like this!



Part II: Vocabulary

The following words will be important throughout the entire year. When writing free responses and lab reports you must be able to recognize and determine the appropriate course of action. On a sheet of paper, demonstrate your knowledge of the following words. You may define, diagram, or illustrate an appropriate response for full points.

Words Commonly used in Free Response Questions and Class Discussion	Words commonly used and seen in <u>lab reports</u> as well as FRQ's and discussions
Explain	Independent Variable
Discuss	Dependent Variable
Describe	Constant Variable
Predict	Experimental Group
Justify	Control Group
Analyze	Hypothesis and Rationale
Identify	Scientific Theory
Model	Statistical Analysis

Part III: Book Study

Choose ONE of the following books listed below:

- *Your Inner Fish*, Neil Shubin
- *The 6th Extinction*, Elizabeth Kolbert
- *Serengeti Rules*, Sean B. Carroll

This section should show evidence of comprehension of the overall theme of your chosen book. Please include the following:

- Title Page: title and author of your book, colorful drawing of what your book is about (artistic abilities are NOT part of the grade, it's more about your interpretation of the overall theme, think of it as drawing a new cover!)
- For each chapter please include: (1 page minimum per chapter)
 - Chapter Name/Number
 - Describe and discuss the theme of the chapter and support this theme with a direct quote (include page number). Your theme should discuss that was important to the chapter and briefly discuss the relevance and importance.
 - Diagrams or models that go along with the quote/theme of the chapter. (hand drawn and colorful)
 - Reflection- summarize how YOU feel about what you just read in the chapter. Are there things you agree with or disagree with?
- Conclusion piece:
 - Give an overview summary of your book based on the themes and quotes from the chapters (this is where you bring it all together)
 - Discuss how your knowledgebase and viewpoints have changed or strengthened while reading your book. Is there anything new you learned that you are excited to learn more about this year? Are there any topics mentioned that you lack confidence in. This is your place to talk about your book and how you feel about the content!
 - Your conclusion should be at least 2 paragraphs!

Suggested Timeline Check List

Weeks	TASK	COMPLETE
1.5	Part I: Bozeman videos and definitions	
1-2 Days	Part II: Definitions	
3-4	Part III: Book Study	

Please note the following:

Time management is KEY to success in this class!

YES! This class is rigorous and you will work harder than you ever have!

YES! All of your hard work will pay off when you take the AP Bio exam and pass it!

YES! This will be the best class you will ever take!