

**Welcome to AP Biology!** This course is designed to be the equivalent to a two-semester introductory **college** course. It is **extremely** challenging but also **very rewarding!** I really want to start the school year off running, so I am asking you to do some preparation work over the summer.

**First:** I will use our school email to contact you throughout the school year. **I am asking you to send me (scott.theresa@whrsrd.org) an email from your school account by June 30, 2019.** Easy so far, right? ☺ In the email, please do the following:

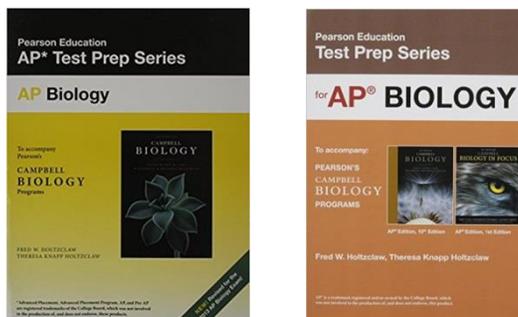
- In the subject line, put: **Your Name-AP Biology** (ex. Charles Darwin -AP Biology)
- In the body of the email, answer the following questions, in numerical order.
  1. Your name – first and last. **Name you preferred to be called.**
  2. Will you be a Sophomore, Junior, or Senior in the 2019-2020 academic year?
  3. What AP classes you have previously taken?
  4. List of AP Classes you will be taking during the 2019-2020 academic year.
  5. All-time favorite hobby or activity?
  6. Favorite candy or snack.
  7. Favorite movie and why.
  8. Will you have a job during the school year? If so where?
  9. In what clubs and/or extracurricular activities will you participate this coming school year?
  10. **Explain in a sentence or two** why have you chosen to take AP Biology.
  11. Do you have any concerns and/or curiosities about taking AP Biology?
  12. What are your plans after graduation?
  13. If you had ten million dollars that you had to give away, what would you do with it?

**Second:** I need you to register with our AP Biology Schoology Page.

1. Please go to <https://www.schoology.com/> and hover over the “Sign-up” in the upper right hand corner of the page.
2. Click on “Student”.
3. Enter in the access code **M9VNF-2FHJM** and then follow the instructions for becoming a member of the AP Biology Schoology page.
4. Please do this by JUNE 30 as well.
5. This is where you will find all of the power points, links to Bozeman Videos and activities we will be doing during each unit.

**Third:** I am going to suggest that you purchase a test prep book. It will help you throughout the year. This link takes you to the one that corresponds to our AP Biology text. This book has great outlines of our chapters, test taking tips, and practice problems. It ranges in price from \$20 to \$50, depending on whether you are buying it brand new or not. **Below the book on the Amazon site**, there are links to other test prep books that are equally as helpful and can be found at different price points. Again, this certainly isn't mandatory, but many students have found these review books helpful.

[http://www.amazon.com/dp/0133458148/ref=pd\\_lpo\\_sbs\\_dp\\_ss\\_1?pf\\_rd\\_p=1944687622&pf\\_rd\\_s=lpo-top-stripe-1&pf\\_rd\\_t=201&pf\\_rd\\_i=0321698282&pf\\_rd\\_m=ATVPDKIKX0DER&pf\\_rd\\_r=185D0NGBBGFEZTZX5PF](http://www.amazon.com/dp/0133458148/ref=pd_lpo_sbs_dp_ss_1?pf_rd_p=1944687622&pf_rd_s=lpo-top-stripe-1&pf_rd_t=201&pf_rd_i=0321698282&pf_rd_m=ATVPDKIKX0DER&pf_rd_r=185D0NGBBGFEZTZX5PF)



**Forth:** You must complete the summer assignments described on the following pages. These assignments are due **Friday August 30, 2019**. If you have any questions, please email me. I will be checking my email on a weekly basis over summer break.

**Thank you for being a dedicated science student! Have a great summer!  
I am looking forward to an excellent year!**

**Mrs. Scott** ([scott.theresa@whrsd.org](mailto:scott.theresa@whrsd.org))

**Part 1** involves creating a journal of informational podcasts from a great science teacher, Mr. Paul Anderson of Bozeman, Montana. His website is [www.bozeman.com](http://www.bozeman.com). You should bookmark this site, as you will visit it **often** throughout the school year.

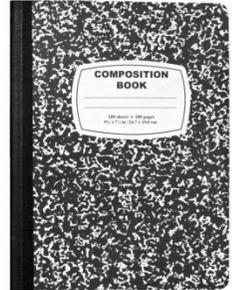
**Part 2** consists of finding **TWO** Ted Talks: one that is inspirational in nature and another that interests you and relates to Ecology, our first unit of study.

Do not wait until the end of the summer to start these tasks! Please be sure to adhere to the required formats and remember that **BOTH parts of your summer assignment are due on Friday August 30**. The end of this document has a checklist of items to help keep you more organized!

## Part 1 of 2: Creating a BOZEMAN JOURNAL

Visit the site [www.bozemanscience.com/ap-biology/](http://www.bozemanscience.com/ap-biology/) and become familiar with Mr. Paul Anderson. We will be watching his excellent videos throughout the year. His website is organized and it has special sections for AP Biology Practices, Labs, and Supplemental Materials. As you are assigned videos to watch, you will create a “Bozeman Journal” that, at the end of the year, will be a great study guide to look back on for the AP Exam.

Your task, this summer, is to begin your “Bozeman Journal”. Get a bound composition notebook (pictured below). **Put Your Name, AP Biology, and Bozeman Journal on the FRONT COVER in permanent marker.** In your journal, you should use **ONE PAGE** for notes on **ONE VIDEO**. At the **TOP of EACH PAGE** you should clearly write the **EXACT TITLE** of the video you are taking notes on. Your notes should be what will help you remember the information from the video and may include drawings or equations. Over the summer, please watch and take notes on the following videos. You will be doing **Unit 1** of videos over the summer to help get you introduced to the material that we will cover in Unit 1. It will be a good way to review material AND get the Bozeman Journal started without the stress of work from other classes and after school activities. **There are 25 videos for you to watch, so please start practicing your TIME MANAGEMENT NOW! This course requires you to be diligent about time management.** Do not wait to do all of these videos in one day at the end of August. Choose to do a few each week and space out the work so that it doesn't become overwhelming.



### Under AP Biology Practices:

1. Models and Representations
2. Using Mathematics
3. Scientific Questioning
4. Data Collection Strategies
5. Analysis and Evaluation of Evidence
6. Scientific Explanations and Theories
7. Scales, Concepts, and Representations

### Journal Entries should look like this:

## UNIT 1: Chemistry of Life/Animal Behavior

### Ch 39

- 11: Animal Behavior
- 026: Behavior and Natural Selection
- 040: Information Exchange
- Chi-square

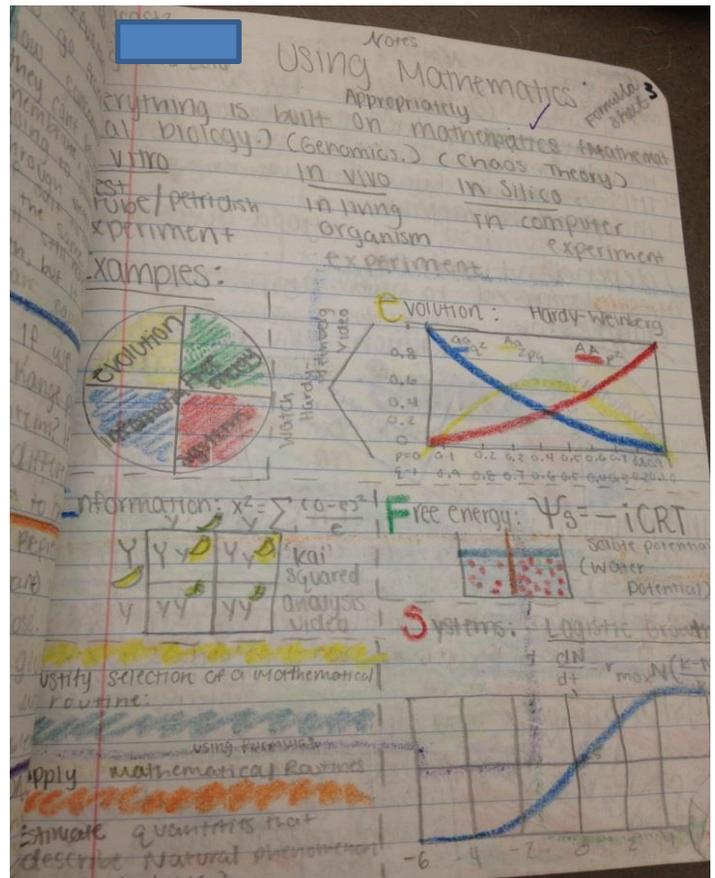
### Ch 40:

#### Under Biology

- Niche
- r and k selection

#### Under AP Biology

- 020: Biotic and abiotic factors
- 050: Populations



Exponential growth  
Logistic growth

**Ch 41:**

Under Biology

Communities  
Population variation  
Ecological succession  
Aposematic coloration

Under AP Biology

051: Ecosystem change  
055: Biodiversity

**Ch 42:**

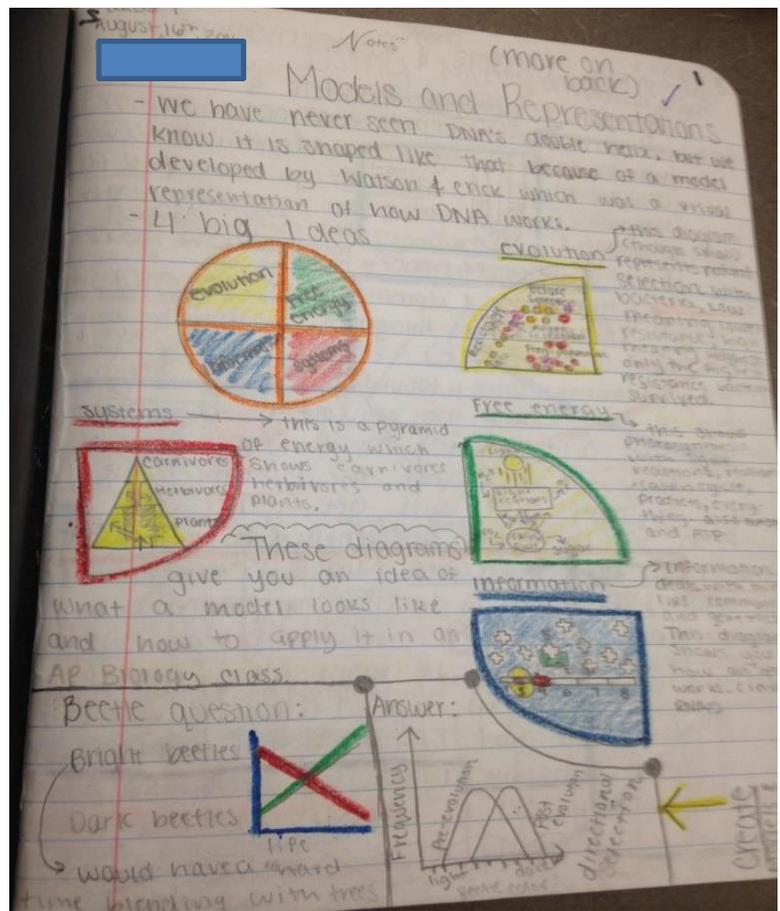
Under AP Biology

014: Environmental Matter Exchange

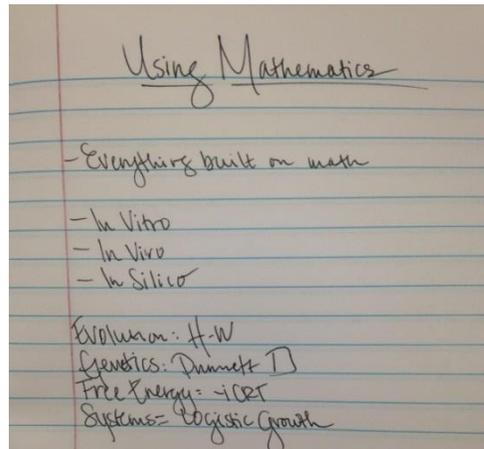
**Ch 43:**

Under Biology

Greenhouse Effect



**NOT like this:**



Please keep in mind that this is an AP class and there are **very high** expectations for your work. Take **PRIDE** in your Bozeman Journal. It will be a **STUDY GUIDE** that you create through the entire year to supplement what we are doing in class. Please see the examples above of what your journal should look like and what it should not. These are **graded solely on an effort basis** and if you want full credit, I expect to see a **GREAT** effort. **The Bozeman Journal and your Chapter Reading Guides make up the BULK of your "homework" in this class.** You will need to spend quite a bit of time outside of our class meeting time listening about, reading about, and writing about the material that we are working with in class.

## **Part 2 of 2: Ted Talk**

This part of the summer assignment asks you to explore the TED web site (<http://www.ted.com/>) and recommend **TWO** talks for us to watch in class.

One talk must focus on **inspiration**. Imagine that this is something you would watch at the beginning of the school year that would inspire you to work as hard as you can, not just in AP biology, but in all of your classes. This talk does not have to be about science or school- it should be more about motivation and inspiration. One of my favorites (so you cannot choose it) is on GRIT and can be found here:

[https://www.ted.com/talks/angela\\_lee\\_duckworth\\_grit\\_the\\_power\\_of\\_passion\\_and\\_perseverance](https://www.ted.com/talks/angela_lee_duckworth_grit_the_power_of_passion_and_perseverance)

The other talk must focus on something to do with ECOLOGY, our first unit. It would be a TED TALK that could be shown at some point during unit and could relate to the AP Biology curriculum. In your paragraph (see below) be sure to explain where you could see this video fitting in during our study of ecology.

You must write **at least a paragraph** (five full sentences...but feel free to write more) on each of the talks that you have selected. You should include the title and presenter of the talk, summarize the content of the talk, and explain why you chose that particular talk out of the thousands available (what about the talk spoke to or impacted you).

## SUMMER ASSIGNMENT CHECKLIST

- Send Mrs. Scott ([scott.theresa@whrsd.org](mailto:scott.theresa@whrsd.org)) your introductory email by June 30, 2019.
- Sign up for our Schoology Page by June 30 as well.
- Get a bound composition notebook and begin your **Bozeman Journal** as described in **Part 1** of your summer assignment. Be sure to watch all 25 videos and make sure that you have **ONE** video per page in your journal.
- Come up with and summarize your **TWO** Ted Talks- one inspirational and the other that pertains to Ecology.
- **Purchase a Test Prep Review Book.** This is **OPTIONAL**, but strongly recommended as it is a **GREAT** review and it will be **YOURS** to write in as we go over the material in our text.
- Go swimming and ride a bike.
- Be kind to a stranger.
- See a good movie on a rainy summer day.
- Sleep in *once* in a while (after all, school does start at 7:05...so sleeping until 9 is sleeping in).
- Do some chores around the house *without* being asked.
- Have fun!!
- Get ready for a year full of hard work, stress, learning, cool labs, lots of laughs, and awesome science!



Imagine  
With all  
your mind.  
Believe  
With all  
your heart.  
Achieve  
With all  
your might.