

## DMHS AP Biology Summer Assignment Due the first Friday back in the fall of 2020.

Welcome to AP Biology! We are going to have a great time this year, learn a ton of stuff and prepare to take the AP Biology exam on Friday, May 14, 2021 at 8: 00 am\*

The following is a list of ESSENTIAL assignments to do before our first day:

Computer access required!

- Make sure you are comfortable using Google, and specifically your SUSD gapps account.

- We will be using that, Google Classroom, plus other online resources.
- Create an AP Biology folder in your SUSDGAPPS account Google Drive or Single

If you are not able to access your SUSDGAPPS email, drive, calendar, etc., call 480-484-4357 ("484-HELP") BEFORE school starts.

Bookmark the following pages - these will be used as supplemental resources

- College Board (<https://myap.collegeboard.org/> )
- Google Classroom (<https://classroom.google.com/>)
- EdPuzzle (<https://edpuzzle.com/home>)
- Bozeman Science AP Biology (<http://www.bozemanscience.com/ap-biology/> )
- Gizmos ExploreLearning (<https://www.explorellearning.com/>)
- SUSD single sign on (SSO) <https://signon.susd.org>
- Our online textbook, Biology by Feeman 6 edition will be accessed through Mastering Biology on SSO

You will need the following class materials:

- A separate binder JUST for AP Biology:
  - o 2.5 - 3" three-ring binder with 9 tab dividers, loose leaf college ruled paper and loose leaf graph paper
- A bound lab notebook - a "classic" marble lab book (not composition - quadrille ruled)
- Metric ruler, pens and pencils, colored writing instruments and/or highlighters

### The Four Big Ideas of AP Biology

Big Idea 1: The process of evolution drives the diversity and unity of life.

Big Idea 2: Biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis.

Big Idea 3: Living systems store, retrieve, transmit and respond to information essential to life processes.

Big Idea 4: Biological systems interact, and these systems and their interactions possess complex properties.

\*please be aware that dates and other details may change

## DMHS AP Biology Summer Assignment Due the first Friday back in the fall of 2020.

DMHS AP Biology Summer Assignment Due August 14, 2020\*

Please choose at least one book from the list below. Read this summer before school starts (scheduled for August 10, 2020\*).

After you have read (and perhaps taken notes ☐), please:

- Be prepared to discuss in class.
- Write an essay using information you got from the book about what major biological concept(s) are dealt with. Include some examples of how the major concept is addressed in the book. You do not have to include all of the concepts touched upon, just the one or ones you feel are most important.
- Explain why it is an important concept for us to know about and understand.
- What conclusions you can make about the ideas/information presented in the book.
- What did you like about the book? What did you dislike?
- Your essay should be a minimum of 2 typed pages in length, but no more than 3 pages. Text should be double-spaced with 1-inch margins and you should use a 12 point font. Do NOT follow the format used in English class; instead start at the top of the first page. Include a cover sheet (NOT part of the page count) with your name, the title of the book, and the author's name.
- Please be prepared to submit all of your essays electronically.
- Due date August 10, 2020\*

Book list:

1. The Beak of the Finch; by Jonatha Weiner
2. The Woman Who Smashed Codes; by Fagon, Jason
3. Wonderful Life; by Gould, Stephen Jay
4. Barbara MiClintock, Nobel Prize Geneticist; by Fine, Edith Hope
5. T-rex and the Crater of Doom; by Alvarez, Walter
6. Rosalind Franklin: The Dark Lady of DNA; by Maddox, Brenda
7. The Double Helix; by Watson, James D.
8. In the Shadow of Man: by Goodall, Jane
9. The Dinosaur Heresies: New Theories Unlocking the Mystery of the Dinosaurs and Their Extinction: by Bakker, Robert T.
10. Pilgrim at Tinker Creek; by Dillard, Annie
11. The Andromeda Strain; by Crichton, Michael
12. Origin of Species; by Darwin, Charles
13. The Immortal Life of Henrietta Locks; by Skloot, Rebcca
14. The Selfish Gene; by Dawkins, Richard
15. Gorillas in the Mist; by Fossey, Dian
16. The Monk in the Garden; by Henig, Robin
17. Lucy: The Beginnings of Humankind; by Johanson, Donald

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