Welcome to AP Biology 2022-23

Mr. Frazer

- BA in Biology; MS in Education
- Interests
- 1st AP course taught: AP Bio (2 years ago)
- 2 AP institutes

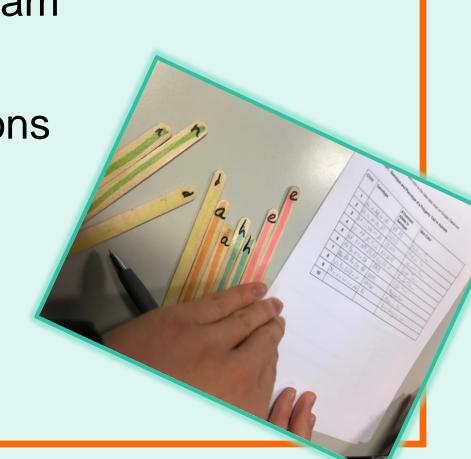
Who is the AP Bio Student?

- Enjoys scholarship
- Enjoys Science
- Enjoys sitting down with a book
- Enjoys being challenged
- Enjoys inquiry and investigation
- Does not mind confusion
- Can tolerate and accept that every assignment is not a steady stream of A's

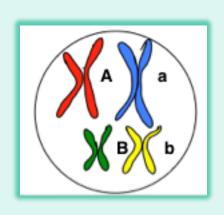


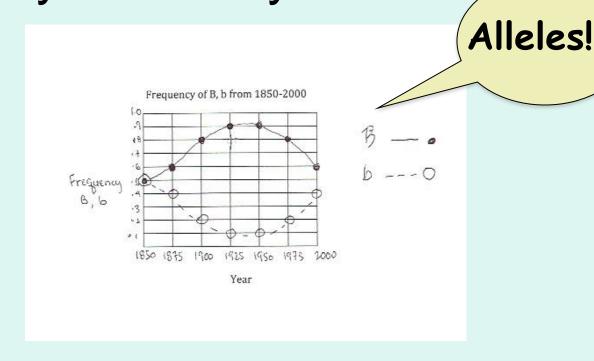
What is the course

- College level
- Semester and AP Exam
- Essay writing
- Labs and investigations
- 4 "Big Ideas"
- 8 Units



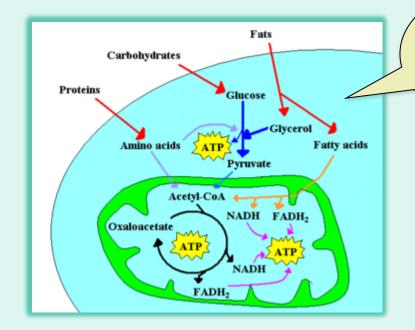
The process of evolution drives the diversity and unity of life.





Biological systems utilize free energy and molecular building blocks to grow, to reproduce, and to maintain dynamic

homeostasis.



eek...

Krebs!

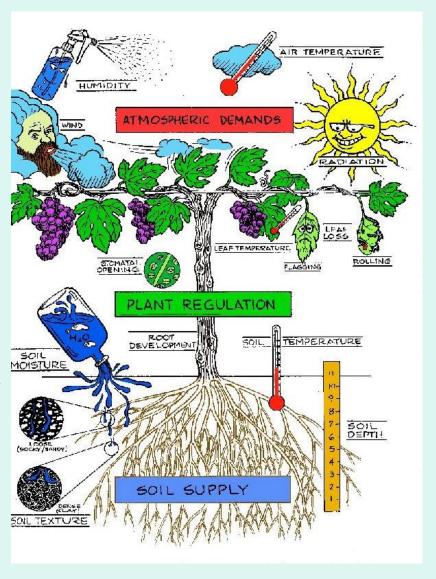
Living systems store, retrieve, transmit, and respond to information essential to life

processes.

neurons



Biological systems interact, and these systems and their interactions possess complex properties.

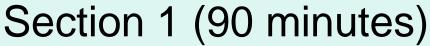


8 Units

- 1. Chemistry of Life
- 2. Cell Structure and Function
- 3. Cell Energetics
- 4. Cell Communication and Cell Cycle
- 5. Heredity
- 6. Gene Expression and Regulation
- 7. Natural Selection
- 8. Ecology



Exam May 2023



- 63 Multiple-choice questions
- 50% of score

Section 2 (80 minutes + 10-minute reading)

- 2 Long Response (25%)
- 6 Short Response (25%)



Science Practices Assessed

- the use of modeling to explain biological principles;
- the use of mathematical processes to explain concepts;
- the making of predictions and the justification of phenomena;
- the implementation of experimental design; and
- the manipulation and interpretation of data.

Grading Policy

- Grades can be accessed online via the student and/or parent Aeries Portal. Aeries Portal access can be obtained from the office. Overall grades will be weighted as follows:
 - Assessments Summative (e.g. examinations, performance assessments, etc.) 50%
 - Assessments Formative (e.g. quizzes, FRQs, etc.)
 20%
 - Laboratory (e.g. laboratory activities, laboratory notebooks, Data Blitz presentations, etc.) 15%
 - Assignments (e.g. classwork, homework, discussion, etc.) 15%

Fun Videos

- http://www.ted.com/talks/lang/en/the_cock roach_beatbox.html
- https://www.youtube.com/watch?v=B_zD3 NxSsD8
- https://www.youtube.com/watch?v=MnYpp mstxls&t=27s