**AP BIOLOGY 2019-20 June 5, 2020**

**Today’s Agenda (Day 173)** [LU Online #48]

1. HOUSEKEEPING:
2. Homework Check:

🡪 PROJECT: must be 50% completed

A. E-BOOK: complete draft script of 3 of 5 parts of e-book, including all visuals

B. RESEARCH PAPER/PPT: draft of introductory paragraph and minimum of 3 body paragraphs (or half the content)

C. VIDEOS: unedited version of 1 video

D/E. SUPERHERO/MYTHICAL CREATURE: draft history of superhero/creature; draft discussion of affected organ systems (first 3 bullets of project description); include images

F. CREATIVE ART: one completed work, with caption and brief description of artwork

1. Class Activity:

**🡪 Presentations: POST-AP PROJECT – Day 1**

HOMEWORK:

* Complete final project

REMINDERS:

|  |  |
| --- | --- |
| **Task** | **Due Date** |
| Project Complete | ~~Wednesday, June 3~~ |
| Presentations | June 4 - 10 |

**AP BIOLOGY 2019-20 POST-EXAM PROJECT**

* **AP BIOLOGY FINAL PROJECT OPTIONS**

|  |  |
| --- | --- |
| **Task** | **Due Date** |
| Choose Topic and Project Format | By Friday, May 22 |
| Sufficient Progress Check | Wednesday, May 27 |
| Project Complete | Monday, June 3 |
| Presentations | June 4 - 10 |

**OPTION A: Children’s Biology E-Book** (1-2 students)

1. Choose ***one major*** concept or topic in biology and develop a five-part series children’s e-book teaching young children about that topic. Your target audience should be from kindergarten to third grade.

1. The book needs to include both words ***and*** illustrations.
2. You may use humor which is age appropriate.
3. Your book must be interesting to kids, with a unifying theme that tells a story. Your series e-book will be shared with the elementary classes. These teachers’ opinions may be taken into consideration with the grading of your work.
4. You must have a minimum of 18 graphics in your book and utilize 6 different colors. If using stock art/images, please give credit where due. The picture has to help bring out the theme of the story. You will be graded on the quality of your graphic.
5. Look at examples to see successful children’s books that interweave biology into a good story. The Lorax is a good example of such a book.
6. Your typing font must be a minimum size. Produce work no smaller than typing 12 times new Roman font.
7. Each series of the book must be a minimum of ten pages in length and contain a minimum of 100 words.
8. Your document may contain no spelling errors. You will receive a 1-point deduction for each spelling error.

1. You may work singly or in pairs.
2. Your book must have an illustrated cover with a "catchy title".
3. BONUS: a) All art or illustrations is original.

b) Incorporate hyperlinks or audio within each e-book of the series.

c) Create an audiobook to accompany the e-book.

# Grading Rubric

|  |  |  |
| --- | --- | --- |
| **Task** | **Value** | **Points Received** |
| Topic Chosen on Time | 10 |  |
| Progress Check | 5 |  |
| Five-part series completed in full; works cited fully | -100 if not done |  |
| Book Length and Illustration Requirements | -100 if not done |  |
| Illustrated Cover with Catchy Title | 5 |  |
| Book Completed On Time | 10 |  |
| No errors in spelling or other language component | 10 |  |
| Accuracy of Information | 20 |  |
| Quality of Finished Product | 10 |  |
| Creativity and Originality of Work | 20 |  |
| Presentation of Book | 10 |  |
| Total Score Received | 100 |  |

**Option B: Just a Formality** (individual student option)

Formal 10-page minimum paper or 35-plus slide PowerPoint presentation on any biology/medicine topic.

[BONUS: Include most current event/article.] You may not use over size 32 font in your PowerPoint and it must include at least 15 cited graphics.

[Scoring Rubric] Total Score = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Science Content (rigor and accuracy) 90 pts. \_\_\_\_\_\_\_\_\_

\*\* Uses own words and not cut and pasted - 100 \_\_\_\_\_\_\_\_\_

Spelling/grammar -1 per error \_\_\_\_\_\_\_\_\_

Bibliography 10 pts. \_\_\_\_\_\_\_\_\_

Overall aesthetics 5 pts. \_\_\_\_\_\_\_\_\_

**Option C: Captain Video Option** (1-2 students)

1. Create a video (5-10 minutes in length) that showcases the wonderful world of AP Biology. The intent is to use your video as a “recruiting” took for future AP biology students, or to introduce AP biology at a future open house (so it needs to be understandable and appropriate for parents). Creativity and appropriate humor are encouraged, but the video must be firmly grounded in the reality that is AP biology. ONLY ORIGINAL CONTENT WILL BE ACCEPTED!

1. Create a second video (5-10 minutes in length) on a class/lab topic. Your video must be good enough for this teacher to use!). You must provide a written transcript of 2 or more pages for the second video and references.

Video Evaluation Rubric (Excellent) 5...4...3...2...1...(Poor)

* Is educational 5...4...3...2...1
* Is relevant to the audience 5...4...3...2...1
* Provides a good insight into topic 5...4...3...2...1
* Is creative and entertaining 5...4...3...2...1
* Language is used properly and effectively; relevant citation 5....4....3....2....1
* Images and/or graphics relate well to content 5....4....3....2....1
* Camera is stable, smooth movements and pans 5....4....3....2....1
* Subject images are well-composed and easy to see 5....4....3....2....1
* Sound is clear and understandable 5....4....3....2....1
* Video is edited effectively, flows well 5....4....3....2....1

Score \_\_\_\_\_\_ out of 50 X 2 = Total Score \_\_\_\_\_\_

**OPTION D: An examination of Superhero systems** (individual student option)

Superheroes (ie. Superman, Spiderman) have their powers because they have evolved extraordinary body systems. In reality, some of these systems would cause many biological difficulties (excessive blood pressure, hormonal driven hostility, etc,)

* You must provide a brief description of your Superhero, including all of the relevant information to enhance understanding of who/what you will be discussing.
* You would need to solve these organ system incompatibility issues while deriving a superhero having the powers and abilities you have chosen.
* You must provide detailed drawings of your superhero and your proposed internal organ arrangement ± how did you make everything work correctly? (50 pts.)
* You must also provide a five or more-page detailed typewritten explanation of the biological difficulties encountered **and specifically how you solved them**, (50 pts.) so that the hero would be able to function in the manner movies or comics tell us they do. DO NOT VIOLATE CURRENTLY LAWS/UNDERSTANDINGS OF BIOLOGY/PHYSIOLOGY!
* Create a PowerPoint presentation that incorporates all of the relevant parameters of this option.

**OPTION E: An examination of a mythological creature** (individual student option)

Mermaids [or any other mythical creature such as sphinx, chimera, etc.) are imaginary organisms that combine the bodies of two very different critters. In reality, this would cause many biological difficulties: different digestive systems, two hearts, different circulatory systems, different modes of reproduction, different methods of excretion, gills and lungs, etc.

* You must provide a brief description of your Superhero, including all of the relevant information to enhance understanding of who/what you will be discussing.
* You would need to solve the organ system duplication and incompatibility issues.
* You must provide detailed drawings of the creature in question and your proposed internal organ arrangement ± how did you make everything work correctly? (50 pts.)
* You must also provide a minimum five or more-page detailed typewritten explanation of the biological difficulties encountered and specifically how you solved them, so that the creature would be able to function as myths tell us they do. (50 pts.) DO NOT VIOLATE CURRENTLY LAWS/UNDERSTANDINGS OF BIOLOGY/PHYSIOLOGY!
* Create a PowerPoint presentation that incorporates all of the relevant parameters of this option.

**Option F: THE ART CORNER - ECOLOGY AND MAN'S IMPACT** (individual student option)

Many people are concerned with the number of living things that humans threaten due to our activities on this planet. In this assignment you will have the choice of poetry or graphic art to express your opinion on this issue. If you choose this option, you must use your own art work and/or photography.

**YOUR TASK**: Select two of the following five options. You are responsible for following the composition rules for each. !!ALL WORKS PRODUCED MUST BE ORIGINAL!!! (45 points for each and 10 pts for presenting your work to the class)

1. **HAIKU**. Choose FOUR DIFFERENT animals or plants. You may do all animals, but not all plants. THESE SHOULD BE SURROUNDED BY A COLLAGE OF PICTURES OF THE ANIMALS (or PLANTS) THAT YOU ARE WRITING ABOUT.
2. **CINQUAIN**. Choose FOUR DIFFERENT animals or plants. You may do all animals, but not all plants. THESE SHOULD BE SURROUNDED BY A COLLAGE OF PICTURES OF THE ANIMALS (or PLANTS) THAT YOU ARE WRITING ABOUT.
3. **QUATRAIN**. Four stanzas minimum. Use the correct form for a quatrain!! This should be surrounded by a single picture or collage of the animals or plants you refer to in the poem.
4. **SONNET**. Use the correct form for a sonnet!! This should be surrounded by a single picture or collage of the animals or plants you refer to in the poem.
5. **One original drawing or painting**. No paint by number. This should have a clearly evident theme. The theme or title should be written on the back of the art and a typed 40 to 60-word summary of what the drawing/painting is depicting should be with it.

After making your selection, you are to produce either the poetry or the artwork you have chosen with one of these themes:

**"WE MUST SAVE THE \_\_\_\_\_\_\_ FOR OUR CHILDREN."**

" The word of the Lorax seems perfectly clear UNLESS someone like you cares a whole awful lot, nothing is going to get better. "

**"NO ONE CRIED WHEN THE DINOSAURS DIED, WHO CARES ABOUT A CONDOR?"**

(For a more macho into RAMBO devotee.)

\*\* You may use another similar theme, but it must be approved by me first.

* If you select the poetry, you must follow the composition rules for that type of poem.
* The poetry and collage should be depicted digitally via a Power Point or Prezi or e-Poster platform.
* This digital presentation must also include a pre-recorded audio in which you read your one or more of your poems AND that explains the poetry/collage and/or drawing/painting.