

Rubric for Summer Assignment – Biology Review Blog – 35 points total – example can be found at:

<http://ahsapbiologysummerassignment.weebly.com/>

Throughout this course, you will be exposed to situations that will be similar to what will be expected of you in a college course. It is incredibly important, when working in collaborative classes, to learn how to effectively work within a group, share, and synthesize ideas.

The purpose of this assignment is: a) to help you review your prior knowledge of Biology, and b) to work collaboratively in a study group to produce unique work.

All material must be original (drawings, thoughts) or cited from a reputable source (.edu is acceptable – all others are at your own risk). **Collaboration with other groups is strictly prohibited for this assignment** (realizing there will be repeated information due to the nature of the assignment, if plagiarism is found, will result in a 0). Collaboration within your group will be evident in your blog posts, and you will be required to submit a survey with each due date giving feedback on collaboration. Please contact me if you feel the work was not done in a collaborative manner.

Evolution – 4 points total – link to page emailed to athensapbiology@gmail.com by August 4th at 12:00 noon

- 2 Topics addressed with own wording and detail – at least 2 bullet points per topic, explained - Darwin’s Theory of Evolution by Natural Selection and Descent from Common Ancestors AND Patterns and Processes of Evolution
- Helpful sources found for review and reported (websites, youtube videos, diagrams – cited from reputable sources with website name and link)

Use of energy and materials for cellular processes – 4 points total - link to page emailed to athensapbiology@gmail.com by August 4th at 12:00 noon

- 2 Topics addressed with own wording and detail – at least 2 bullet points per topic, explained - Cell growth and division (Mitosis and Meiosis), Maintaining homeostasis (Cellular Respiration and Photosynthesis)
- Helpful sources found for review and reported (websites, youtube videos, diagrams – cited from reputable sources with website name and link)

Genetics – 8 points total – link to page emailed to athensapbiology@gmail.com by August 11th at 12:00 noon

- 4 topics addressed with own wording and detail – at least 2 bullet points per topic, explained - DNA transcription (to mRNA) and mRNA translation (to proteins), Probability of gene inheritance ,Effects of mutations in genome , and Forms of Biotechnology and its uses in modern-day genetic research
- Helpful sources found for review and reported (websites, youtube videos, diagrams – cited from reputable sources with website name and link)

Interaction in Living Things – 6 points total - link to page emailed to athensapbiology@gmail.com by August 18th at 12:00 noon

- 3 Topics Addressed with own wording and detail – at least 2 bullet points per topic, explained - Transport of materials across cell membrane, Role of enzymes in the cell, Interaction of species within an ecosystem
- Helpful sources found for review and reported (websites, youtube videos, diagrams – cited from reputable sources with website name and link)

Biology as a Tool for Life – 4 points total – link to page emailed to athensapbiology@gmail.com by August 25th at 12:00 noon (be sure all group members have posted their information by then!)

- Individual grade – each member must write a reflective paragraph about why they are interested in taking this course (AP Bio) and what they hope it will do to prepare them for future careers/ majors in college, plus a bulleted list of careers of interest provided from the College Board website (or others not included there, if applicable for you)

Overall Appearance of Blog – 4 points total, assessed at same time as final blog post

- Weebly blog created, containing 5 pages of information (1 for each main topic listed above), clearly organized, free of spelling and grammatical errors (professionally presented), with all group members' names prominently displayed

Individual Collaboration + Participation – 5 points total, assessed with group feedback rubric each update email sent to athensapbiology@gmail.com (1 point per page on the website – see below for exact rubric to use)

- Each group member must be “lead member” at least once in order to earn full points, which means that they coordinate all group members for that week by communicating with them and posting the information onto the website – for the “Genetics” posting, 2 members may share “lead member” status if there is a group of 6

Any late work will be deducted 20% each day late (for example, if a link is emailed on Tuesday, I will at most give 80% of the possible score to the group for that assignment portion.) So be sure to have a reliable group member email me the link and survey!

Rubric that must be included for each website submission (email):

- Lead group member's name – ranking (1-3) in effort put into this week's post – description of duties performed for this week's post
 - Other group member's name (RANK IN ORDER OF EFFORT TO THAT WEEK'S POST) – description of duties performed for this week's post
 - ... etc. for other group members, in descending effort to that week's post
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Sample email on each due date:

Hi Ms. Bolterstein,

In the following link, you will find our group's information for the Genetics portion of our blog:

<http://ahsapbiologysummerassignment.weebly.com/genetics.html>

Effort Rubric for this week:

- Lead: Smarty McAwsome – effort: 3 – Smarty organized group information and posted it to the blog, as well as found a video that was added to the site
- Supergeeked Forbio – effort: 3 – Supergeeked wrote the information for this post, regarding Biotechnology, probability of gene inheritance, and mutations in the genome (note: Supergeeked did not do as much for the next blog post)
- Kinda Involved – effort: 2 – Kinda wrote the information for gene expression and sent it to Smarty to post
- Justin Danickatime – effort: 1 – Justin was on vacation this week, but found a few helpful pictures and emailed them to the group to use

Thanks!

- Smarty McAwsome