

IB Biology Year 1
Summer Work 2019 – For Rising Juniors
Ms. Moss & Ms. West

In Year 1, we will cover 5 main curriculum topics. Each of these topics includes several key foundational concepts. Your summer work will help prepare you for your first year of IB Biology by exposing you to some of those concepts, allowing you to practice reading scientific articles, and writing and synthesizing information in the way we will continue to do all year. You will be writing responses based on command terms that you will see in question prompts throughout the course.

For each of the topics below that we will cover, you are required to find a scientific journal article that relates.

Topics covered Year 1:

Topic 1 – Cell Biology

Topic 2 – Molecular Biology

Topic 4 – Ecology

Topic 5 – Evolution

Assignment Expectations:

Part 1: For each of your 4 articles, complete the *Analyzing a Journal Article Graphic Organizer* document. All 6 steps are to be completed for each article you have chosen. You may simply type your responses and be prepared to submit your work **on the first day of school**. Please use the *Analyzing a Journal Article Graphic Organizer* document posted with this assignment.

Part 2: Choose one of the articles you read and write a one-page response as outlined below.

- **Topic 1 article:** **Explain** the author's main conclusion, **justifying** the main idea with the data in the article.
- **Topic 2 article:** **Discuss** the procedure(s) the author used to test their hypothesis. **Describe** the strengths and limitations of the procedure(s) used.
- **Topic 4 article:** **Deduce** the long term consequences of the findings of the article. **Deduce** the next steps the author might take to further the research.
- **Topic 5 article:** **Compare** the author's view point with your own view point on the topic of the article. **Describe** any ethical issues surrounding the theory of evolution.

Please bring your 4 graphic organizers and your 1-page article response to class on the first day of school.

IB Biology will require you to be familiar with and answer questions based on command terms. Each of the bold words above in Part 2 are command terms. Please check one of the links located below this assignment for a list of command terms and their meanings.

You may use any scientific journal as a source of articles. Galileo (see the Media Center webpage) is a great place to start looking for scientific articles.

Any summer work turned in after the due date will be assessed at 10 percent per day it is late.

If you have any questions you can email Ms. West at westka@boe.richmond.k12.ga.us or Mrs. Moss at mossni@boe.richmondk12.ga.us.