

IB Biology Year 2 Summer Work 2019 – RISING SENIORS for YEAR 2 IB BIO

Ms. Moss & Ms. West

In year 1, we covered several main curriculum topics. Each of those topics included several key foundational biological concepts, all of which could be used for an internal assessment laboratory. Your summer work will help prepare you for your final internal assessment task that will be completed for IB grading in the fall. Your task is to choose 3 of the following topics from year 1 and to complete a Design Portion of an Internal Assessment to investigate a key concept from each of the three topics you chose. All 3 assignments should be saved electronically and ready to submit on the first day of class.

For example, in Topic 1 one of the concepts we covered was the cell membrane. You could design an experiment to investigate a variable that would have an effect on the rate of transport in a cell. Please be reminded that Internal Assessment labs should not be labs that have already been done before, but should be an innovative, creative investigation into a topic of importance. You are not allowed to simply investigate a research question for which the answer is already known and widely accepted in the scientific field.

Topics covered:

Topic 1 – Cell Biology

Topic 2 – Molecular Biology

Topic 4 – Ecology

Topic 5 – Evolution

Topic 9 – Plants

For each Design write-up you are expected to include the following:

Title

Personal Engagement Statement

Exploration:

Research Question

Hypotheses (Alternate & Null)

Variables Chart

Background information

Methodology

Safety, Ethical, and/or Environmental Concerns

Bibliography/Works Cited

There is an outline with further direction for each section on the IB Biology Seniors Class Page.

If you have any questions or need help finding our class page, you can email Ms. West at westka@boe.richmond.k12.ga.us