



# FREEDOMPROJECT ACADEMY

## Course Syllabus

### Biology

#### Course Description:

Welcome to Biology, the study of life! My hope and prayer is you will come to know God by seeing His laws, order, and wisdom in receiving this broad overview of His amazing and glorious creation around us through biology. You will learn of the sheer grandeur of His world through scientific inquiry, experimentation, and communication.

#### Major Topics of Study:

Biology: The Study of Life

Kingdom Monera

Kingdom Protista

Kingdom Fungi

The Chemistry of Life

The Cell

Cellular Reproduction and DNA

Mendelian Genetics

Evolution: Part Scientific Theory, Part Unconfirmed Hypothesis

Ecology

The Invertebrates of Kingdom Animalia

Phylum Arthropoda

Phylum Chordata

Kingdom Plantae: Anatomy and Classification

Kingdom Plantae: Physiology and Reproduction

Reptiles, Birds, and Mammals

#### Text/Required Materials:

*Apologia Exploring Creation with Biology 3rd edition (updated edition for 2021)*

Dissection Kit with Specimens and Tools

*Dissection Kit Specimens only (If you have tools)*

Microscope

Microscope Kit for Apologia Biology

Clean Slides

Cover Slips

Methylene Blue

## Required Materials:

Bound notebook for your lab experiments

- Camera or device to take photo of experiments
- Materials for experiments are listed on supply list included

## Grading:

Homework - 35%

Chapter Tests & Quarterly Tests - 45%

Experiments/Lab Reports - 25%

## Attendance/Participation:

You have reached the rhetorical stage of your educational development and are expected to participate in class, share thoughts and ideas, and help your fellow classmates.

Please be RESPECTFUL of other classmates during our time in the classroom. (We love to have fun but we also need to stay on task.)

The 2 lowest participation grades will be dropped each semester to allow some grace for situations that are not excused.

## Expectations/Guidelines:

Read the lessons to be covered prior to coming to Classroom Live. We only meet 2 days a week and cannot cover everything in class so students are expected to read and learn the material independently. Any questions can always be addressed in class.

Take detailed notes neatly and orderly, not screen shots.

Charts and tables are also a great way to keep track of facts.