



CITY ON A HILL

Classical Christian Education

Class Biology Part I – Fall 2023

Dates Tuesdays, August 22 – December 12

Teacher Mr. Jon Szabo

Phone 707-273-2004

Time 8:00 AM – 9:10 AM

Email jonsaved1995@gmail.com

Class Description: Covers the first half of the Dincher Biology textbook (see Curriculum/Tools below), emphasizing foundational things which are both microscopic (cells, genes) and macroscopic (ecology).

Goal: For students to both *learn from* and *govern over* the layers of complexity found in the organic world. Further out, this relates to the “dominion” mandate of Genesis 1:28 and Psalm 8:6-8.

Grades/Ages: This class is designed for students in the 9th, 10th, 11th, and 12th grades.

Curriculum/Tools for Learning: Please purchase the following resources:

- *Exploring Creation with Biology (3rd Edition) – Vicki Dincher (Publisher: Apologia)*
- Pens, pencils, and notebook. The purchase of a microscope may be necessary, unless we share one in class.
- Use of a computer (Word, Excel) may be needed for some assignments.

Grade Rubric: As a reminder, although the teacher may provide each student with an end of semester grade, it is the responsibility of the student’s parent to determine the final grade for the student. The grade provided by the teacher is meant to be a reflection of the work accomplished within the scope of the class and therefore is not a reflection of the student’s overall progress.

- Attendance & Participation: 10 %
Students are expected to attend and engage with the class discussion.
- Homework & Lab Notes: 10 %
A log that records “On Your Own” problems completed and additional lab work notes (strive for about one student-selected lab experiment for every two modules completed -see Dincher textbook and the “After Class Assignments” column on next page).
- Quizzes: 20 %
Helps prepare the student for upcoming tests; takes up one-third of class hour.
- Tests: 45 %
Each test is long enough to take one whole class hour to complete.
- Science Paper: 15 %
Near the end of the semester, students present their findings on one aspect of biology previously covered in class.

Meeting Dates and Content Fall 2023 *

| Date | Week | Lesson/Topic | <u>Before Class</u> Reading | <u>After Class</u> Assignments |
|--|--|--|-----------------------------|---|
| 22-Aug | 1 | Science, Life, Microscopes | Module 1 pp. 1-36 | “On Your Own” problems 1.1-1.12 |
| 29-Aug | 2 | Chemistry: Water | Module 2 pp. 37-57 | “On Your Own” problems 2.1-2.10 |
| 5-Sep | 3 | Chemistry: Carbon | Module 2 pp. 58-84 | “On Your Own” problems 2.11-2.26 |
| 12-Sep | 4 | Quiz 1 and Activity | Review Modules 1 - 2 | Organize Lab Notes from any 1 Lab of past Modules 1 - 2 |
| Sept 12th Parent Training Class – 7 PM | | | | |
| 19-Sep | 5 | Ecology: Biosphere | Module 3 pp. 85-119a | “On Your Own” problems 3.1-3.17 |
| 26-Sep | 6 | Ecology: Predation vs. Symbiosis | Module 3 pp. 119b-136 | “On Your Own” problems 3.18-3.22 |
| 3-Oct | 7 | Cell Structure and Function | Module 4 pp. 137-178 | “On Your Own” problems 4.1-4.13 |
| 10-Oct | 8 | Quiz 2 and Activity | Review Modules 3 - 4 | Organize Lab Notes from any 1 Lab of past Modules 3 - 4 |
| 17-Oct | 9 | Cellular Energy | Module 5 pp. 179-212 | “On Your Own” problems 5.1-5.5 and study ahead for Test 1 |
| 24-Oct | 10 | Test 1 | Review Modules 1 - 4 | |
| 31-Oct | 11 | DNA, RNA, and Proteins | Module 6 pp. 213-230 | “On Your Own” problems 6.1-6.10 |
| 7-Nov | 12 | Cell Cycles and Meiosis | Module 6 pp. 231-252 | “On Your Own” problems 6.11-6.25 |
| 14-Nov | 13 | Genetics and Inheritance Patterns | Module 7 pp. 253-307 | “On Your Own” problems 7.1-7.20 |
| Nov 14th Parent Training Class – 7 PM | | | | |
| 21-Nov | Break – No Class - Thanksgiving | | | |
| 28-Nov | 14 | Quiz 3 and Presentations | Review Modules 5 - 7 | Organize Lab Notes from any 1 Lab of past Modules 5 - 7 |
| 5-Dec | 15 | Evolution (with Genesis Creation discussion) | Module 8 pp. 308-347 | “On Your Own” problems 8.1-8.5 and study ahead for Test 2 |
| 12-Dec | 16 | Test 2 | Review Modules 5 - 8 | |

* Reading and homework equate to, on average, three hours for every one hour of class lecture, following the State of California High School Diploma credit requirements.

Classroom Behavior/Etiquette (Code of Conduct)

Although not all participants of City on a Hill activities confess Christ, there is still an expectation for participants to follow these general guidelines as a code of conduct:

Love God and Love Others (Romans 13:8-10) - The Law of God directs our steps. The two greatest commands direct all that we do (Matthew 22:36:40). The 10 commands clearly explain the moral law written on everyone's heart (Deuteronomy 20:3-17).

Respect Authority (Romans 13:1-5) - In words, actions, behavior, attitudes, and in secret.

Dress and Speak like Men/Women - What we wear and what we say should speak of maturity.

Diligence in our Work, Play, and Rest - We are to do well in whatever we find ourselves doing.

Syllabus Reading and Assignment Acknowledgement

We, (parents and student), have read this syllabus and understand the requirements for this class.

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