

**High School Biology Course Outline  
2020-2021  
Mr. Tomlinson, Room 12**

**CONTACT**

If you have any questions or concerns, please feel free to contact me anytime at [ktomlinson@tokyoips.com](mailto:ktomlinson@tokyoips.com).

**TEXTBOOK**

Glencoe Science Biology

**DESCRIPTION OF COURSE**

This course will cover a basic understanding of biology, chemistry, structure of cells and how they communicate, energy conversions, cell reproduction, genetics, gene expression, genetic engineering, origin of life, changes in organisms, ecosystems and succession, environmental problems and solutions, and the classification of living things. They will also explore the structure of bacteria, viruses, and fungi.

**EXPECTATIONS IN THE CLASSROOM**

You must bring to class:

- Pencil
- Eraser
- Ruler
- Pen
- Science Binder
- Lab Notebook
- Planner
- Relevant grading sheets/worksheets/textbooks
- Work due

Getting ready: When you come into class, get all of your materials out on the table in front of you, including your homework. To be on time for class, you must be at your desk with your materials out by the end of the bell. Please put any personal equipment in your bag and then put your bag safely on a spare chair or under the table.

Food and Drinks: No food is permitted in class. Drinks are permitted in class except on lab days.

Homework: Please write your homework task down in your planner.

Leaving the room: Please do not leave the room without asking.

Late Assignments: Any assignments/projects/lab reports that are late, without having made arrangements with the teacher at least one week prior, will have 2% of their total mark for that assignment deducted for each day it is late.

Tests: If you miss a test and did not discuss your absence with the teacher at least one week before the test or have a note explaining your absence, you will receive a zero on that test.

## GRADING

Your grade will be determined by your work in these categories:

### 1) Daily work – 30% of your grade.

Daily work is anything we complete in class including practical experiments, worksheets, and discussions.

### 2) Projects – 30% of your grade.

Projects are longer tasks, designed to practice skills including research, organization, group work, and presentation. They will usually take more than one class period to complete and will involve completing some of the work outside of class time.

### 3) Quizzes – 20% of your grade

Short assessments between 5-10 questions, taking 5-10 minutes to complete. Used to check your progress throughout the course.

### 4) Tests – 20% of your grade

Chapter exams cover all the material learned in one chapter. They will be completed without using your notes.

The grading scale for this course will be:

Letter grade	Mark range
A+	97-100
A	92-96
B+	88-91
B	83-87
C+	79-82
C	74-78
D+	70-73
D	65-69
F	64 or below

## PLAGIARISM POLICY

Students who hand in school work that is not their own are guilty of *plagiarism*. Students who plagiarize will be dealt these consequences:

### First offence:

- phone call to parents and the work redone and the grade reported
- explain to parents consequence for second offence

### Second offence:

- phone call to parents and the work redone and assessed, with the grade of "0" recorded
- explain to parents consequence for third offence

**Third offence**

- phone call to parents and the work redone and assessed, and a grade of "0" recorded
- Saturday School assigned by school administration
- explain to parents the consequence for fourth offence

**Fourth offence**

- phone call to parents and the work redone and assessed, and a grade of "0" recorded
- 2 day Out of School Suspension by school administration
- preamble with parents expulsion on fifth offence

**Fifth offence**

- expulsion

**COURSE CONTENT**

*Note: course content and test dates are subject to change throughout the year.*

**Unit 1: Introduction to Biology (Chapters 1)**

- Scientific Method Revisited
- Biology as the science of life

**Unit 2: Ecology (Chapters 2, 3, 4 and 5)**

- Introduction to Ecology
- Communities, Biomes and Ecosystems
- Populations
- Biodiversity and Conservation

**Unit 3: Cellular Biology (Chapters 6, 7, 8 and 9)**

- Chemistry Review
- Cells
- Cellular Energy
- Cellular Reproduction

**Unit 4: Genetics (Chapters 10, 11, 12 and 13)**

- Sexual Reproduction and Genetics
- Complex Inheritance and Human Heredity
- Molecular Genetics
- Genetics and Biotechnology

**Unit 5: History of Biological Diversity (Chapters 14, 15, 16 and 17)**

- History of Life
- Evolution
- Primate Evolution
- Organizing the Diversity of Life

**Unit 6: Bacteria, Viruses, Protists and Fungi (Chapters 18, 19 and 20)**

- Introduction to Bacteria and Viruses
- Introduction to Protists
- Introduction to Fungi

### **IMPORTANT DATES**

*Note: Test dates are subject to change throughout the year*

<b>Subject</b>	<b>Proposed Test Dates</b>
Chapter 1	September 4
Chapter 2 and 3	September 25
Chapter 4 and 5	October 16
Chapter 6 and 7	November 11
Chapter 8	December 4
Chapter 9	December 18
Major Project #1	December 18
<b>Midterm</b>	<b>January 15</b>
Chapter 10	January 29
Chapter 11	February 19
Chapter 12 and 13	March 19
Chapter 14 and 15	April 16
Chapter 16 and 17	May 14
Chapter 18	May 28
Chapter 19 and 20	June 11
Major Project #2	June 11
<b>Final Exam</b>	<b>June 17</b>