



PAP Biology



Syllabus

Mrs. Howell Rm: 401

2026-27

Course Description

Biology (**LIFE**) is a laboratory-based course designed to introduce students to the science processes, skills, and understandings related to a wide range of biological topics. Topics covered will include the nature of **scientific inquiry**, **cell biology**, **genetics**, **taxonomy**, and **ecology**. During this course, students will learn to identify the basic questions and concepts that guide scientific investigation and to design and conduct their own investigations. Important skills to develop throughout this course include microscopy, graphing and measurement, identification of research questions, making connections, and the ability to be a self-directed learner.

Supply List



Required

3 Ring Binder
Pen or Pencil
Highlighters

Optional

10 Count markers
Scissors
Glue Sticks

Tutoring

Monday - Friday
7:15am - 7:40am
(my classroom)
Room 401



Honesty

Cheating on any quiz, test, paper, or homework assignment will result in a grade of zero for all parties involved.

Grading Policy

Quizzes/Projects/Labs:

Class/Homework:

Tests:

%



Late/Missed Work

In the event of illness, the student is required to make up missed work within one day of absence. Daily work/homework/labs may be made up during tutoring if needed. Tests and quizzes must be made up within 2 days of return.

Classroom Expectations

- 1.) Be on time and ready to work when the tardy bell sounds.
- 2.) Be respectful of people, possessions, and space.
- 3.) Be responsible and bring all necessary supplies.
- 4.) Follow all directions carefully and ask for clarifications when necessary.
- 5.) Turn in completed assignments that are neat and on time.

Consequences

- 1.) Verbal warning.
 - 2.) Teacher/student conference.
 - 3.) Parent contact and/or detention.
 - 4.) Referral to Assistant Principal
- **Severe offenses will be referred to an Assistant Principal immediately****



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 Unit 1 – Scientific & Engineering Practices (BIO.1–BIO.4)

- Lab safety; scientific investigations; experimental design; data collection & analysis; scientific communication.

 Unit 2 – Cellular Basis of Life (BIO.5)

- Characteristics of life; biomolecules; cells; organelles; membrane transport; homeostasis; viruses.

 Unit 3 – Cell Cycle (BIO.6)

- DNA replication; cell cycle; mitosis; differentiation; stem cells.

 Unit 4 – Genetics (BIO.7)

- DNA; transcription; translation; mutations; biotechnology.

 Unit 5 – Inheritance (BIO.8)

- Mendelian genetics; Punnett squares; pedigrees; variation.

 Unit 6 – Evolution (BIO.9–10)

- Natural selection; evidence; speciation; phylogeny.

 Unit 7 – Energy (BIO.11)

- Enzymes; photosynthesis; cellular respiration; ATP.

 Unit 8 – Body Systems (BIO.12)

- Organization; plant/animal systems; homeostasis.

 Unit 9 – Ecology (BIO.13)

- Ecosystems; food webs; cycles; populations; biodiversity; human impact.
