

Wallenpaupack Area School District

Wallenpaupack Area High School

Course Title: Biology

Length of Course: 1 Semester

District Policies:

Academic Integrity:

Academic integrity is essential to the success of an educational community. Students are responsible for learning and upholding professional standards of research, writing, assessment, and ethics in their areas of study. Written or other work which students submit must be the product of their own efforts and must be consistent with appropriate standards of professional ethics. Academic dishonesty, which includes cheating, plagiarism, multiple submissions and other forms of dishonest or unethical behavior, is prohibited.

Assessment:

The goal of grading is to report student progress and achievement to the parents to strengthen the home-school connection. The grade should accurately reflect the student's performance in mastering the PA Standards and the WASD curriculum.

Attendance:

Regular school attendance is vitally important to academic success. Not only does attendance reinforce and enrich the learning process; it also establishes patterns and attitudes that will carry forward into adult work habits. Regular, consistent attendance is a prerequisite to successful school life. Children should be absent only in cases of illness or emergency.

Special Education:

Our commitment to each student is to ensure a free appropriate public education which begins with the general education setting, with the use of Supplementary Aids and Services. Inclusive education describes the successful education of all students with the appropriate supports and services to participate in and benefit from the general classroom settings and other educational environments.

Course Description:

The topics taught are scientific process, genetics, cell biology, and evolution. This is a hands-on biology course that is task oriented and will appeal to a wide variety of learning styles.

Pennsylvania State Standards:

All WAHS courses are aligned to the PA State Standards and Common Core Standards, where applicable.

Major Activities:

- Supervised self-paced laboratory work in groups
- Group projects and individual projects
- Cooperative learning groups
- Board/Class demonstrations
- Biology text reading and review
- Guided practice and class work problems
- Homework
- Teacher-made chapter tests and quizzes
- Final Exam

Student Responsibilities:

Homework expectations:

Homework is an important component and will be assigned when necessary. I will check homework on a regular basis. When I collect homework, it is due at the beginning of the period.

Make-Up Work:

Any missed work must be made up. You have the number of days you were absent from the day you return to make up the work. Any work not made up will be recorded as a "0". It is your responsibility to see your teacher about make up work on the day you return.

Late Work:

I will take late homework up to one day late for ½ credit.

Assessment:

Grading Components:

Your marking period grade will be determined through tests, quizzes, homework, drawings, laboratories, and projects. Every assessment and assignment will be worth various amounts of points. Your marking period grade will be based on the total points accumulated divided by the total possible points. Keep a record of your grades in your notebook.

Quarter Grades:

Class work = approximately 40%

Quizzes and Tests = approximately 40%

Homework = approximately 20%

Final Exam:

Final exam is valued at 14% of the student's final average

Content Pacing Guide:

Topic	Major Assignments	Estimated Time
Scientific Method	Scientific Method Labs	14 blocks
	Pseudoscience Activities	
	Measurement Activities	
	Microscope Activities	
	Characteristics of Life Lab	
	Quiz	
	Test	
Cells and Homeostasis	Cell Organelle Activities	10 blocks
	Egg Lab	
	Osmosis Activities	
	Quiz	
Energy	Test	
	Plant Pigment Activities	10 blocks
	Photosynthesis and Respiration Activities	
Mitosis and Meiosis	Quiz	
	Chromosome Activities	8 blocks
	Onion Root Tip Lab	
	Cancer Activities	
	Mitosis and Meiosis Comparisons	
DNA	Test	
	DNA Models	10 blocks
	DNA Fingerprinting Activities	
	DNA Replication Activities	
	Cloning Activities	
	Human Genome Project Activities	
	Protein Synthesis Activities	
Genetics	Quiz	
	Test	
	Inheritance Activities	15 blocks
	Sex-linked Traits Activity	
	Pedigree Activities	
	Blood-typing Activities	
Evolution	Genetic Disorder Project	
	Quizzes	
	Test	
	Natural Selection Activities	10 blocks
	Fossil Activities	
Classification	Human Evolution Activities	
	Quiz	
	Classification Activities	4 blocks

	Dichotomous Keys	
	Test	
Embryology	Medaka Observations	2 blocks
	Human Development Activity	
Pathogens	Pathogenic Disease Activities	3 blocks