

Principles of Biomedical Science

Welcome to PBS! This class gives you an introduction to the biomedical sciences through exciting hands-on projects and activities. You will investigate concepts of biology and medicine as they explore health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. This class is taught differently than what you may be used to. It is project based which means that you will be doing many activities on your own and at your own pace. You will need to manage your time well to complete the course requirements. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes, and allow students to design experiments to solve problems.

Unit Topics

1. The Mystery
2. Diabetes
3. Sickle Cell Disease
4. Heart Disease
5. Infectious Disease
6. Post Mortem

Grades

Grading Categories		Grading Scale
Tests & Quizzes	40%	A = 100-90% B = 80-89% C = 70-79%
Classwork, Labs and Homework	60%	D = 60-69% F = 59% or less

Your grade is divided into 2 categories, each representing a percentage of your grade. If you do not turn in an assignment or you don't take a test or quiz, you will receive a zero (M) on the assignment.

Course Materials

Project Lead the Way Website

Every student will need the following items with him or her every day in class:

- 3 ring binder for PBS (1 $\frac{1}{2}$ inch)
- Blue or black pen
- Pencil and eraser
- Bound composition book

Resources

Projects may involve working outside of class or students may occasionally need to get help or make up labs and quizzes. To assist you the following resources are available:

Office Hours:

- *Tutorial Period, Tuesday-Friday*
- *After school until 3:30.*
- *By appointment.*

Email: javery@sjusd.org

Class websites:

Avery Science: www.averyscience.com

Google Classroom: <https://goo.gl/P5t7T9>

Project Lead the Way www.mypltw.org

Class Policies

1. Respect the teacher, classroom & other students.
2. Always follow safety rules.
3. If you are not in class by the second bell, you are tardy. WGHS tardy policies will apply.
4. Follow all school rules - Refer to the Willow Glen Student Handbook for dress code, electronics code etc.

Breaking the rules will result in ANY of the following: (1) verbal warning, (2) parent conference, (3) detention and/or (4) referral to the AP of Discipline

Cell Phone Policy - We may use cell phones for educational purposes, and you will be specifically and explicitly instructed when to do so. If an electronic device is being used for any other purpose, the device will be confiscated and given to Mr. Gallegos.

Food - No food, drinks (except bottled water). This is a safety issue in a science classroom. It will also keep the room clean as well as keep ants and cockroaches away.

Excused Absences - Exchange phone numbers and e-mail addresses with classmates so you can find out what we did if you missed class. Find class handouts in the "PBS" box when you return from an absence. You will have 1 week from the day you return to make up work. Quizzes can be made up during tutorial or after school. Labs can only be made up during tutorial or after school. If you do not make up or turn in work you will receive a zero (M) on the assignment.

Late Work - Work is considered late if it is turned in after the due date. **All late work will have a mandatory 20% deduction.** Late work will not be graded after the end of the six-week grading period.

Quiz Retakes - You can retake quizzes during tutorial or after school to raise your grade during a unit.

Quizzes may only be retaken once. Projects, labs and tests cannot be redone.

Safety - Activities are 55% of your grade, but to do lab work you must pass a safety test and turn in a safety contract. You can retake the test as many times as you need until you pass it. If you do not pass the test OR hand in the contract, you will not be able to participate in lab activities and projects.

Academic Honesty - Plagiarism occurs when someone uses another person's words, ideas or work without stating where it came from. Plagiarism will result in a zero grade, parent-teacher conference and/or a referral.

Students will complete labs together but **will be expected to finish the analysis independently.** In these cases, collaboration outside of completing the lab is considered plagiarism. If the student is unsure if collaboration is allowed, it is their responsibility to ask.

Research on projects & labs is encouraged, however, proper credit must be given to sources.
