

# Principles of Biomedical Science (PBS)



Room B114  
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## ***The Curriculum***

Biomed students investigate, analyze, and document evidence to determine the cause of death of our patient, Anna Garcia. Students explore a range of careers in biomedical sciences as they learn content in the context of real-world, hands-on activities, projects, and problems used in biology, research, and medicine.

Unit 1 – The Mystery

Unit 2 – Diabetes

Unit 3 – Sickle Cell

Unit 4 – Heart Disease

Unit 5 – Infectious Disease

Unit 6 – Post Mortem

## ***Materials***

- 3-ring binder with loose leaf paper  
OR notebook and folder
- pens and highlighter
- long pants and close-toed shoes
- headphones  
(Students will be issued a locker)

## ***Class Rules***

1. Be here – on time!
2. Do your own work
3. Clean up when finished
4. Respect others & their property

## ***PBS Resume***

### **Laboratory Skills**

- Aseptic technique
- Bacterial plating and identification
- Gram staining
- Micropipetting
- DNA gel electrophoresis

### **Clinical Skills**

- Blood pressure measurement and analysis
- EKG analysis
- Pedigree analysis
- Bloodwork analysis

### **Experimentation Skills**

- Design and conduct reliable scientific experiments
- Analyze and interpret laboratory data
- Construct graphs
- Interpolate and extrapolate data from a graph
- Draw conclusions based on experimental data

### **Professional Skills**

- Group collaboration
- Planning and organizing
- Time management
- Problem-solving
- Technical writing

\*SFSD grading scale will be used. PLTW courses are *weighted grades*.

\*Grades will be calculated using total points and will be balanced ~50% daily labs/projects and ~50% quizzes

\*Students and parents can view grades on SFSD Infinite Campus.

\*Students can access all curriculum from school or home using [my.pltw.org](http://my.pltw.org)

