**Medical Detectives Syllabus**

**Course Lab Fee: $10**

**Course Description**

PLTW students engage in hands-on activities, projects, and problems that are reflective of real-world challenges. This compelling, real-world approach empowers students to learn essential, in-demand skills validated by the world’s leading companies, while also providing an invaluable connection between what students are learning in the classroom today and how it applies to the paths they’ll take in the future.

Students are engaged through Problem Based learning. Students are presented with information/knowledge and then must apply it to solve problems. Most of the problems have multiple solutions. Students utilize their prior and new knowledge in order to develop a possible solution. Students are encouraged through this process with probative/guided questions from the teacher instead of direct answers.

NOTE: Due to Covid-19, some activities/projects will be modified.

**Grades:**

Grading guidelines:

50% Daily Activities

50% Assessments/MajorProjects/End Unit or Activity Project

**Class Rules**

1. Students will enter class quietly, sit in their assigned seats, and prepare for class to begin. **Bag placement is a very important safety issue due to the nature of this course. All student areas should only have writing utensils and a notebook at their station. Once seated students will be directed to place bags in the appropriate storage area.**
2. Students are to raise their hand and wait to be called on.
3. Students will come to class prepared.
4. Students will respect EVERYONE.
5. No gum/candy or drinks allowed.
6. All purses, bags, and book bags brought into the room will be stored in the designated area. NOT AT YOUR SEAT!!!

**Computer Rules**

1. No unauthorized websites. This includes but is not limited to: Facebook, Vine, Twitter, Social Media Sites, Music sites, Youtube, and Non-educational gaming sites.
2. Changing the computer settings (i.e. background scheme, cursor, wallpaper, desktop icons, etc.) is NOT allowed.
3. Always save your work on your Google Account Drive. Any work saved on the computer hard drive may be lost/erased.
4. If a computer is messed up, changed, damaged, or not in appropriate order, when you FIRST come into the room, notify the teacher IMMEDIATELY!!!
5. Do not write on the computer, monitor, or table. Do not twist or rotate computer monitors or change their settings.
6. No part of the computer or classroom is a toy. You will respect the classroom and the equipment.
7. AT NO TIME should you unplug any device from the computer without the teacher’s permission. Making any changes to computer setup in NOT ALLOWED.

**Cell Phones/Devices:**

At NO TIME should a student have a cell phone/device at their seat, INCLUDING smart watches. Students are NOT ALLOWED to charge their cell phones/devices in the classroom.

\*\*See School Policy

If the need should arise for students to use their cell phones, I will CLEARLY STATE SO AS WELL AS STATE WHAT THE PURPOSE AND LIMITS ARE.

**Student Planner**

As per Student Handbook:

“ALL students are required to have their student planner in their possession at all times. One student planner will be provided to each student at no charge.

Student Planner (replacement) $10.00 each”

**Course Lab Fee: There is a $10 course lab fee. Please send as soon as possible.**

By signing below, the parent and student are acknowledging they have read and understand the course syllabus and requirements.

Student Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_

Student Name (Print) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_

**Contact Information:**

Parent Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent Email: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent Phone Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Medical Detectives

Medical Detectives is a new PLTW course. This course gives students a glimpse of the medical field. As a result, students and parents need to be aware of certain requirements and guidelines.

The $10 fee goes to assist in procuring materials for this course. For each single class of students, over $800 of consumable items must be purchased. These included testing antibiotics and bacteria, agar plates, sheep brains for dissections, toxins, reagents and controls for testing. This does not include all of the consumables.

**ALLERGIES:** Check Yes or No for each of the following as it pertains to your child.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Allergen | Yes | No | Allergen | Yes | No |
| Latex gloves |  |  | Sodium hydroxide |  |  |
| Nitrile gloves |  |  | Aluminum nitrate |  |  |
| Vinyl gloves |  |  | Sodium salicylate |  |  |
| Tetracycline |  |  | Cobalt chloride |  |  |
| Erythromycin |  |  | Phenolphthalein |  |  |
| Formaldehyde |  |  | Penicillin |  |  |
| Streptomycin |  |  | Ampicillin |  |  |

List other allergies: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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The above list of allergies correctly reflects my child’s medical information.

Student Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_

Medical Detectives Code of Conduct

Medical Sensitivity

While you explore the Medical Detectives unit, it’s important for you to show sensitivity to your peers’ personal experiences with various medical conditions and to understand the importance of a safe and confidential learning environment.

HIPAA

In this unit, you will investigate vital signs. It’s important to consider that most people want their health information to be kept confidential. The measurements you take are not meant to be used for diagnostic purposes and should not be shared with others. The federal government has laws in place to help patients keep their health information private and protected (Health Insurance Portability and Accountability Act of 1996 (HIPAA)).

Measurement Guidelines

This Medical Detectives unit provides an introduction to career pathways in the biomedical field. However, keep in mind that you will not be an expert. Any measurement or analysis you do is not meant to be for diagnostic purposes.

When measuring vital signs, remember that there are acceptable ranges that depend on many factors, including a person’s recent activity, fluid intake, gender, time of the day, and emotions. If you are uncomfortable having your vital signs taken, talk to your teacher about other ways you can participate.

Safety Guidelines

Make sure to pay attention to any safety instructions your teacher mentions.

Sharing Guidelines

Please use caution when you create documents that can be viewed publicly. Publicly shared documents can give away many of the solutions that keep this class suspenseful and exciting for other students who explore the PLTW curriculum.