

PLTW 6th Grade Design and Modeling Syllabus

Welcome to Mrs. Hildreth's Project Lead the Way classroom!

Contact: The best method of contacting me is through email. My email is hildreth.h@onstedschools.us.

Materials: 1" binder, notebook paper, pencil

Google Classroom: Google Classroom will be set up for the first day of school, so you can log in with the code provided. As this class is mainly hands on, using materials provided in class, attendance is important. The classroom will contain links to the software we use in class.

Class Description: Design and Modeling provides students opportunities to apply the design process to creatively solve problems. Students are introduced to the unit problem in the first activity and are asked to make connections to the problem throughout the unit. Students learn and utilize methods for communicating design ideas through sketches, solid models, and mathematical models. Students will understand how models can be simulated to represent an authentic situation and generate data for further analysis and observations. Students work in teams to identify design requirements, research the topic, and engage stakeholders. Teams design a toy or game for a child with cerebral palsy, fabricate and test it, and make necessary modifications to optimize the design solution.

Classroom Rules:

- Be Responsible
- Be Respectful
- Be Resilient

Grading Policy: Grades will be calculated through total points earned. Students will earn points for engineering notebook checks, presentations, projects, quizzes, and tests

Grading Scale: The grading scale from the student handbook will be used in this class and is listed here.

A = 4.00	C = 2.00	S = Satisfactory
A- = 3.66	C- = 1.66	U = Unsatisfactory
B+= 3.34	D+= 1.34	I = Incomplete
B = 3.00	D = 1.00	NC = No Credit
B- = 2.66	D- = 0.66	C = Credit
C+= 2.34	E = 0.00	

Late Work Policy:

-Absences

Work missed due to an excused absence must be turned in within the same number of days absent. Work from school related absences is due the following day. It is your responsibility to get and complete work missed due to a field trip, extra-curricular activity, meeting, etc.

-Late work not related to an absence will be accepted for a 25% reduction in credit. All late work will be due at the conclusion of the lesson.

Internet Use:

Students are expected to remain in the designated classroom software or websites during instructional time. Use of the internet for non-class-related purposes (including games, streaming, or unauthorized browsing) is not permitted. Each student is allowed **three reminders per marking period** to return to approved classroom software. After the third reminder, **any further violations will result in an office referral**. Responsible and focused use of technology is expected at all times.

Safety Contract

As I learn to be a good investigator, I need to be organized, clean, and act safely in the classroom. I will not engage in behavior that is disruptive or dangerous or that interferes with another student's right to learn. In the laboratory, I promise to:

1. Be Prepared: I will give my full attention to the instructions for each experiment and make sure I understand them before beginning the experiment. I will work only in my assigned space.
2. Respect Equipment: I will carefully utilize the different instruments and equipment as they are intended to be used to carry out assigned activities. I will immediately report any damaged or broken instruments or equipment to the teacher.
3. Complete the Experiment: I will wait until the teacher authorizes me to begin the experiment or activity. I will follow the steps of the procedure in the correct order and I will not carry out steps beyond what is indicated.
4. Observe Thoroughly: I will listen and I will observe calmly and silently to learn the most.
5. Investigate Carefully: I will follow all written and oral instructions. I will wait until I receive my teacher's permission to begin an activity.
6. Be Safe: I will protect my eyes, face, and hands while performing lab activities by wearing safety goggles, gloves, or other protective gear as directed by my teacher. I will follow any additional safety instructions given by my teacher. I will not horseplay in the classroom.
7. Treat all materials and tools with care and respect.
 - a. Use scissors, exacto knives, and other sharp instruments only as instructed.
 - b. Never cut any material towards you - always cut away from your body.
 - c. Report any cut or scratch from sharp objects to the teacher immediately.
8. Record Results: As I work, I will record my observations and measurements in my engineering notebook.
9. Clean Up: I will clean the materials used in activities after I have finished. I will clean my work area, return supplies to the designated location, and wash my hands.
10. Report Accidents: I will immediately notify the teacher of any accident, injury, or dangerous situation that occurs in the classroom to ensure everyone's safety.

I, _____ (first and last name) have read and agree to follow all of the classroom policies and safety rules set forth in this document. I realize that I must obey the safety rules listed in order to ensure my own safety, and that of my fellow students and instructors. I will cooperate to the fullest extent with my instructor and fellow students to maintain a safe lab environment. I will also closely follow the oral and written instructions provided by the instructor. I am aware that any violation of the safety contract may result in my being removed from the activity or other consequences.

Student Signature: _____ Date: _____

Dear Parent or Guardian:

I feel that you should be fully informed about your child's opportunities and experiences in my class, as well as my expectations of him/her. Please read through this syllabus and safety contract. No student will be permitted to perform activities unless this contract is signed by both the student and parent/guardian. Your signature on this contract indicates that you have read this document, are aware of my expectations and the measures taken to ensure the safety of your child in this classroom, and will instruct your child to uphold their agreement to follow these rules and procedures in the classroom.

Parent/Guardian Name _____

Parent/Guardian Signature _____ Date _____

Parent Email _____

Parent Phone _____