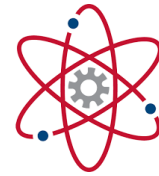


# 7<sup>th</sup> Grade PLTW



Computer coding meets genetic coding this year in Project Lead the Way.

## *Fall Semester*

### **Introduction to Computer Science**

In this unit, students discover the principles of this fast-growing field by focusing on creativity and an iterative design process as they create their own basic apps using MIT App Inventor. Students continue to explore the fundamentals of the stimulating career path of computer science. They venture into text programming through Python and, in the final problem, develop an app to crowd-source and analyze data on a topic of their interest.

## *Spring Semester*

### **Medical Detectives**

Students play the role of real-life medical detectives as they analyze genetic testing results to diagnose disease and study DNA evidence found at a “crime scene.” They solve medical mysteries through hands-on projects and labs, investigate how to measure and interpret vital signs, and learn how the systems of the human body work together to maintain health.

## How to Reach Ms. Harbin

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# GRADING

**Projects:** Students will be working on projects throughout the year. Projects may be assigned individually, with partners or in groups. Team work is essential when working on projects as projects may carry a heavier weight than other assignments!

**Daily Activities/Homework:** Students will be working on activities daily in class and homework will be given as needed. All assignments are expected to be completed to the best of one's ability, with integrity and turned in by the designated due date. Homework is due at the beginning of the class period!

**Participation:** Students will be expected to participate in class daily! This includes answering/attempting to answer questions and participating in classroom activities.

**Engineering Notebook:** Each student is expected to have an Engineering Notebook. PLTW classwork is not from a textbook, so it is imperative that students bring their notebook to class everyday as this will include assignment/project handouts, notes, a design log and student's portfolio of their work. Students will be graded on their Engineering notebook. There will be informal Notebook check points when students will receive points for organized and up to date information within their EN. These points cannot be made up unless a student is absent.

## Classroom Expectations

I believe in holding students accountable for their actions and their learning. It is important that students understand that the materials and computer software we will be working with are **not cheap!!!** Horseplay, misuse, carelessness, and/or theft will not be tolerated. THERE WILL BE NO EATING OR DRINKING NEAR THE COMPUTERS. Failure to follow the defined expectations will result in consequences as outlined in the FHSA Student Handbook. Students are expected to be on time for class. Failure to be on time for class will result in a tardy and documentation in accordance with FHSA's tardy policy.

1. RESPECT-yourself, your classmates, and your classroom and school environment.
2. RAISE- your hand, your expectations of self, and your confidence.
3. DO-your best, what's right, and better every day.

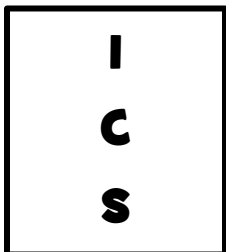
**Materials:** Composition Notebook (Engineering Notebook), Blue or Black Ink Pen, Post-It Notes

Students are responsible for keeping up with all of their work and turning it in on time.

- Homework and assignments will be accepted one day late for half credit.
- Projects and papers will have 1 letter grade reduced for each day late and will not be accepted more than 5 days late.
- Exceptions to this policy apply only for students who are sick or have an excused absence **and** have made arrangements with the teacher.

Major assignments and projects will be posted on the 7<sup>th</sup> grade team calendar. This calendar can be accessed via the following web address: <http://fhsa7thgrade.weebly.com/>

Grades will be posted weekly to Edline. Any student who falls below a C average will have to obtain a parent's signature on a printed grade report sent home the week of said grade dropping.



**Mobile Computing:** The Computing Revolution, Putting Together Pieces, and Collaborate to Solve Problems

**Crowds and Clouds:** Coding for the Crowd and Cracking the Code



1. What is a Medical Detective?
2. Mysteries of the Human Body Systems
3. Murder Mystery