



WELCOME TO APPLIED PHYSICAL SCIENCE!



Class Expectations and Information

This is an introductory course designed to familiarize you with various topics in the physical sciences, including (but not limited to) chemistry, physics, robotics, etc. All you have to do is keep up with the work in class, and if you don't understand something - **DON'T PANIC!** We're here to help you! See us as soon as you are lost and we will help you in any way we can. Most misunderstandings can be cleared up in a few minutes (all accommodations will be respected).

What you have to know to be successful in this class:

EXTRA HELP

- Extra help days are **Tuesday and Wednesday** after school in rooms W 18 and W 11B

GRADING:

- Grading is based on a summative percentage system. Your grade is calculated by dividing the total number of points you earned by the maximum number of points for each assignment, multiplied by 100.
- EXTRA CREDIT: This class has been designed so that the student will pass *if all assignments are met*. Therefore, no extra credit is available. Remember - don't panic! Come and see us if you have a concern!

MATERIALS NEEDED:

- **A one-inch flexible binder** - you will be receiving many handouts - folders do not work! By placing the handouts in order in your binder, you will have the flow of the topic and all the steps will be in place. **THIS IS REALLY IMPORTANT!**

ATTENDANCE:

- All policies put forth by the North Salem Attendance Policy will be followed.
- **Tardiness:** please bring a late note to class. If you have no note, you are considered illegally tardy and will be marked as so. You are responsible for any work/notes missed.
- **Absence:** We will be happy to reply to an email regarding missed work when you are unable to attend class. **It is your responsibility to obtain any notes missed in class and to see us with questions.** We will be happy to help you!

HOMEWORK:

- Homework will occasionally be assigned to supplement projects done in class! This is when you may realize you need more help! Any homework assigned is due the following class.

Labs/Activities

- For each lab/activity, the student will submit a lab response as determined by the instructors and the lab due date will be listed on the website. Late labs will incur a penalty of 10% of the grade per day late.
- Pre-lab assignments may also be given and graded.
- **LAB SAFETY IS ESSENTIAL!** Failure to follow safety rules or have on closed-toe shoes will result in expulsion from lab.
- **If you are absent for a lab: the lab make-up day is the following Tuesday or Wednesday after school or by appointment. Labs must be made up within one week of the original lab** as equipment is shared with other classes and the lab must be broken down as soon as possible. **Once the make-up time period has passed, the lab grade will revert to a zero.** Contact us via email to arrange for a lab make-up if you cannot come the following Tuesday or Wednesday.

Below is a chronological list of Units we will explore:

- Unit 1: Programming with Ozobots
- Unit 2: DC Circuits
- Unit 3: Lil Bits
- Unit 4: Catapults
- Unit 5: Car Crashes
- Unit 6: Airplanes
- Unit 7: Forces and Bridges
- Unit 8: Paper Roller Coasters
- Unit 9: Rube Goldberg Machines
- Unit 10: Solar Energy
- Unit 11: Renewable Energy

Please note: The instructors reserve the right to amend these expectations in writing at any time.

This course ends with a project as the final exam / 5th Quarter grade.