Course Description: Physics is a mathematical science. Physics is the study of the “how” and the “why.” How do airplanes fly? Why does the moon stay in orbit? How is energy conserved? Why do all objects fall to earth at the same rate? Why are the corners of racetracks banked? We will use physics to answer these and other questions this year. The main aspect of this course is laboratory work. We will use the labs to find the answers to the “how” and “why” questions. Each unit we study will have labs as the central theme.

Daily Expectations:
- If you are not in the room on time, you are tardy. “On time” ≈ by 2 minutes after the class is scheduled to start. “Excused tardy” is not an option for me to mark in PowerSchool, therefore, a note from your parents does not excuse a tardy.
- You are responsible for reading, understanding, and following all school policies.
- It is your responsibility to let me know that you do not understand something.
- Make your mistakes loudly so that I can hear them and we can fix them together.
- If you need to leave the classroom for less than 5 minutes, go ahead. If it might be for more than 5 minutes, check with me first, please.
- You need to collect your own data for each lab; you cannot “borrow” someone else’s data if you missed a lab.
- While in class, you must be doing your best to understand what is being discussed. You will be compelled to respond when called on. I don’t need to you have the right answer, only to demonstrate you are thinking.
- Because all phones will be out of reach during testing, you will need a calculator for this class that is not your phone. It will need to be able to perform trig functions at a bare minimum.
- Please treat the room & our stuff with respect. The better you treat the materials; the better materials you will have.
- Please clean up the room at the end of class. That way it will be clean when you start your class.
- Calculator magic is unacceptable. For example, you may not graph a function and get an approximate value.
- Please do not leave class before our class period is over.
- Guess and Check is never acceptable. All turned in work must be done in erasable pencil.
- Mobile phones are allowed in this class; however, they may only be used for school related activities. If you are using your mobile phone for something other than school related activities, your phone may be confiscated.
- Please use whatever technology you feel will help you learn while we converse. My only restriction is that you may only use technology that enhances learning and does not distract from learning.
- After 2.0 × 10^1 minutes, you are responsible for asking me, after class, to change your attendance from “unverified”.
- Please, I implore you to SHOW YOUR WORK!!!

Class Web Site: (Please email Jonathan for the link. thomaspalmerj@a2schools.org)
- If you are unable to attend class, you must go to the web to find out what you missed.
- If you do not have web access at home, please come see me and we will make special arrangements.

Safety: This is the Number One consideration
- Use all safety equipment provided. Use equipment only for intended purpose.
- Read all instructions and precautions before beginning the assignment.
- Report all injuries / accidents to the teacher immediately.
Attendance:
A great deal of the class will be devoted to in-class learning activities. If you are not here, it is much harder to learn the material. It is also extremely difficult to make up a lab without lab partners. Be here.

Grading Scale:
The necessary percentage total for each grade is as follows: (note: grades are rounded by the tenth.)

- A+ 99.5% – 193%  
- B+ 86.5% – 89.4%  
- C+ 76.5% – 79.4%  
- D+ 66.5% – 69.5%

- A 92.5% – 99.4%  
- B 82.5% – 86.4%  
- C 72.5% – 76.4%  
- D 62.5% – 66.5%

- A- 89.5% – 92.4%  
- B- 79.5% – 82.4%  
- C- 69.4% – 72.5%  
- D- 59.4% – 62.5%

Academic Integrity:
The consequences for cheating, plagiarism (including collusion), will result in a reduction of grade, up to a zero for the assignment and can result in Level 1 or 2 behavior consequences as outlined in the 2017-18 Student Rights & Responsibilities Guide: http://www.a2schools.org/Page/7363

Grades:
Grades in the class are done on a simple point scale. Your grade is the percentage of the number of points you earn in comparison to the number of points possible. Grades will be available through PowerSchool.

(The term “class day” below refers to a day this class is in session.)

- Labs: We will be spending a great deal of time working on labs.
- Worksheets: There will be periodic, in-class worksheets.
- Homework: Because this class is flipped, your “homework” is almost entirely learning from my lecture videos.
  - This homework will be graded using EDpuzzle. Don’t stress if you get an answer wrong in EDpuzzle. I will be grading this based on perceived effort, not on whether you get all the answers correct.
  - The EDpuzzle homework is due by 7 AM the day it is due, regardless of whether you are in class or not.
- Optional Practice Problems: These are assigned “book” problems which are grouped by level.
- Projects: There will be periodic, large projects in this class.
- Quizzes: We will have numerous quizzes throughout the semester. I will give you the formulas you will need; you will be responsible for using and understanding them. Every quiz has a practice quiz and solutions. It is highly suggested you complete the practice quiz before taking the quiz.
- Final Exam: A final exam will be given at the end the 1st semester. The final exam will encompass all the information studied during that particular semester. The final exam will be worth approximately 20% of the final semester grade. If we have enough students signed up for the Physics Field Trip to Cedar Point, we will have a Cedar Point Final Project in lieu of a 2nd semester final exam. If we do not have enough students …

Remind: Block 2: Please text @ce2gd to 81010 to join. Block 4: Please text @7268hd to 81010

Finding Jonathan:
- I am part time, which means I am not here at school all day, every day. I teach 2nd & 4th blocks. My plan is to be here starting at 7:20 AM Tuesdays & Thursdays and to remain at school during lunch on Tuesdays, Thursdays and Fridays. Please let me know if you are planning to meet me not during class time.
- The fastest way to contact me is via text. My Google Voice number is (not available on the web). Please don’t abuse this number. If you contact me via text, please tell me who you are!! ☺

Palmer
Syllabus - Foundations of Science 4 19-20 (for website).docx

8/28/19
page 2 of 2