

POINT LOMA HIGH SCHOOL  
2017-2018  
PHYSICS COURSE DESCRIPTION

**Name of course:** Physics

**Teacher:** Mr. Hedges

**Room:** 456

**Title of textbook:** CONCEPTUAL PHYSICS. You will not need to bring it to school but readings will be assigned for homework. If we need the book for a class period I have a class set of books which will be used in class.

**Necessary class materials:** You will need a notebook and paper, pencil or pen, and a calculator every day. You may not use your cell phone app as a calculator in class.

**Course description:** This class is a first year course in physics designed to develop the basic understanding of the interaction of matter and energy. We will seek to discover the mathematical nature of the laws that govern the world we live in.

**Course goals:**

Students will :

- collect and use real data based on experimentation.
- develop a mathematical model to explain what they have observed in class.
- make predictions based on their models.
- make a connection between their models and real world phenomena.
- work cooperatively to solve problems and complete tasks.

Students will be expected to master content in the fields of

1. Motion - Mechanics and Dynamics
2. Energy - Heat and Kinetic Theory
3. Waves - Sound and Light
4. Electricity and Magnetism - Circuits and Electric generation.

**Goals achievement:** We will achieve class goals and meet the expected learning outcomes through the use of experimental activities, lectures, group presentations, problem solving, and homework.

**Labs:** The majority of the class time is given to experimentation and activities. We will work together in small groups to create understanding of the laws that govern the interactions of objects. So, working in a lab setting with others will be a very important skill in this class.

**Lectures and note taking:** After completion of experiments we will be taking notes to clarify what was shown in the experiment. At this time we will develop a mathematical description of the process demonstrated in the experiment or activity.

**Homework:** I believe homework is important because it is a valuable aid in helping you make the most of your experience in school. I give homework because it is useful in reinforcing what you have learned in class and helps expand your knowledge into other areas. It is very important that you complete the assignment and turn it in on time. I will be reviewing the homework on the day it is due and therefore I will not accept it late . If you are absent on the day it is due, you must turn it in the day you return. If you are absent the day it is assigned you must get the assignment from me or the school website

and turn it in within three days of your return. Otherwise you will be given no credit for the assignment.

## **GRADING:**

### **Academic Grade:**

I grade on a straight scale with 90% - A: 78% - B: 66% - C: 60% - D:  
Below 60% is a failing grade.

Your grade will be based on the following categories. Tests and Quiz - 65 %,  
Labs and Activities - 20%, Homework and In Class work - 15%.

### **Citizenship Grade:**

Grade is determined by participation, attitude, and the school attendance policies toward tardies. See the planner for further details.

## **CLASSROOM POLICIES:**

Students are expected to

- Be in class with needed materials on time.
- Complete all assignments on time.
- Work collaboratively with classmates.
- Respect others

### **Other things:**

Class rules:

- No food, candy, gum or drinks (other than water) are allowed in class.
- No electronics (cell phones, ipods, etc.) are allowed in class. Turn them off when you enter the class.

## **OFFICE HOURS AND CONFERENCE PROCEDURES:**

I am looking forward to a challenging and fun class. I am happy to help students in any way I can. Therefore, I am available during lunch, advisory period, and will also be available on most Mondays and Wednesdays after school for students that need help if they notify me before the end of the day.

I can be contacted at the school by phone 619-223-3121 ex 4456 or by email [ehedges@sandi.net](mailto:ehedges@sandi.net) and will usually return messages within 24 hours.

Information about the class may also be found at the school website under the Homework menu at the top of the page. Navigate to Science then Mr. Hedges and click on the period you want. If you need information about class this is a great place to start. You will find a list of important information and daily assignments from the class.