

Dear Student and Parent or Guardian,

Welcome to an exciting year of science. Physics differs significantly from other usual high school courses with respect to the kind of textbook used, range and depth of topics covered, the kind of laboratory work done, and the time and effort required of students. We will investigate the primary workings of the physical world and the science that describes it. This course does fulfill the University of California “d” entrance requirement for laboratory science.

The primary units that will be covered are mechanics (motion and energy), electricity and magnetism, fluids, thermodynamics, light and optics, and nuclear physics. This will be an extremely fast paced course. We will cover almost a chapter per week averaging 30 pages.

This course covers the California and CVUSD district set standards for science. Upon completion of this course students will be able to:

1. Observe and explain examples of energy transformations in mechanical and earth systems.
2. Describe, analyze, and predict the motion of most objects based on the principles of Newton’s laws of motion and the relationship between momentum and conservation of energy.
3. Analyze and explain examples of wave characteristics and be able to calculate wavelength.
4. Determine, diagram and predict the characteristics of electric and magnetic phenomena including the roles of electric and magnetic fields and how circuits operate.
5. Engage in effective inquiry into scientific problems by asking original questions, evaluating evidence, and drawing reasonable conclusions based on this evidence.
6. Examine and explain relationships among different scientific phenomena using experimental evidence, logical argument, graphs, mathematical equations, and other resources.
7. Design and conduct an investigation based on an original question; follow appropriate safety and ethical guidelines; use finding to revise ideas and assumptions and to design future investigations.
8. Use technology, scientific instruments, and equipment to collect, store, and analyze data; analyze how technological advances contribute to scientific progress and lead to new problems and questions.
9. Evaluate proposed solutions to challenges facing the earth and its inhabitants through the application and integration of the main concept of the various branches of science.

In addition to the above standards, students at Westlake High School are expected to demonstrate the following learning results in all courses.

1. Technologically Competent: utilizes technological resources to enhance educational and occupational skills.
2. Involved and Productive Citizens: demonstrate personal accountability and responsibility.
3. Effective Communicators: good reading, writing, speaking and listening skills.
4. Self-directed Learners: independent, lifelong learners who think logically and problem solve in everyday life.

We are also implementing the Common Core State Standards in English Language Arts and in Math. (www.cde.ca.gov/re/cc/) We will be following the Next Generation Science Standards for physical science as well. (www.nextgenscience.org)

Class Rules

1. Respect. Respect yourself, your classmates, and the learning environment.
2. Bring necessary materials to class each day (pencil, pen, notebook, text, etc.)
3. Be involved. This is an interactive class, so participate and have fun with science.

Grades

Grades will be based on a point system. Students will be graded on homework, quizzes, labs, tests, reports, projects, class work, and class participation. Grades will be determined using the following scale:

A = 90 – 100%	D = 60- 69%
B = 80 – 89%	Below 60% = Fail
C = 70 – 79%	

Attendance

Punctuality and attendance will affect your work habits grade as well as your academic grade in that daily pop quizzes will not have the option of being made up. Typically there are about four unannounced quizzes per week. Tests must be made up promptly, equal to the number of days missed.

Multi-curriculum emphasis

Students at Westlake High School are expected to engage in mathematic and written communication skills in all subjects. In this course students will be taught how to solve algebra, trigonometry and calculus based problems, use graphs, and calculate lab data. Students will also be required to communicate their knowledge through a variety of media, including lab reports, formal essays, oral presentations and multimedia presentations.

Makeup work

Makeup work will be allowed only on excused absences and only for an amount of time equal to the excused absence. On occasion extra credit assignments will be given. These assignments are generally more work for fewer points than a regular assignment. Late work will be accepted up to one week late at 50% credit without a late pass. Grades are posted online and updated approximately every two weeks. It is the student's responsibility to track their grades and complete any missing assignments in a timely manner. I will not accept absence as an excuse for not doing work; all missed work must be completed

Website

Students are able to access current homework assignments and grades via the Internet from home. By visiting my website, (www.planetholloway.com), students and parents can access homework and grades. Homework is assigned usually five days a week and updated daily via the website. Homework is typically four to ten problems and should require 30 minutes to an hour to complete. Grades are updated every other week.

Projects

Throughout the year we will have projects to complete outside of the classroom. Students will typically be allowed to work in groups to help keep cost and work required down to a minimum. Please keep materials inexpensive as we will probably have three to five projects this year. It is the responsibility of the student to monitor the progress of the entire group and to make sure the project meets everyone's expectations and is complete on time.

Academic Honesty (Bd. Pol. 5131.9)

Definition: Academic Dishonesty is a deliberate attempt to disrupt the learning process by misrepresenting another's work as one's own. Dishonesty during tests or classwork includes unauthorized communicating; copying materials or allowing another student to copy; using prohibited notes or devices; obtaining prior knowledge of test content; and/or removing or distributing all or part of any test. Copying another person's assignment; providing homework/classwork for another student to replicate; plagiarizing or submitting a paper or project which is not one's own work; and submitting falsified information for grading purposes are also examples of dishonesty.

Consequences:

First Infraction

- - The teacher will conference with the student and record a zero for that assignment.
- - Within five school days, the teacher will notify the parent and send a referral to the appropriate administrator noting the infraction.
- - The student will be placed on contract, with the understanding that a second infraction in the same or any other class will result in the student's removal from the course in which the second infraction occurred. The contract will remain in effect for two years from the date of infraction.

Second Infraction

- - The teacher will send a referral to the appropriate administrator noting the infraction.
- - Within five school days, the parent will be notified, and the student will be removed from the course and placed in a Study Hall with a failing grade for the semester.

College Prep Physics
Instructor – Scott Holloway

Westlake High School

I have always had a passion for science. I look forward to sharing my curiosity and understanding with you. If you have any questions about the course or about your student's progress please email and I will respond right away.

Sincerely,

Scott Holloway
sholloway@conejousd.org

(please sign below that you have read, understand and agree with these policies)

Student Name Print

Student Signature

Period

Parent signature

Date

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Physics cp