



Deer Valley Unified School District No. 97

BOULDER CREEK HIGH SCHOOL
40404 N. Gavilan Peak Parkway ❖ 623-445-8600 ❖ 623-445-8680 (Fax) ❖ bchs.dvusd.org

Mr. Barker

Course: Physics

CANVAS: <https://dvusd.instructure.com/>

Office Hours: Flex Time and by appointment

Room: 506

Email: steven.barker@dvusd.org

Course Description: Welcome to the beginning of another school year, and especially welcome to Physics!! This class focuses on students developing an understanding of physics concepts, applying those concepts to problem solve, and appreciating the relevance of physics skills in their future pursuits. My goal is to make this process as worthwhile as possible. My role is to guide and stimulate student learning, rather than dictate fact based knowledge. The class will be centered on making and using mathematical and graphical models and applying these models to concepts in physics. Understanding physics takes time and practice, but students find it well worth their efforts in the end.

Required Materials:

Each student must have the following materials every day in class: charged ipad, dry erase marker, bell work notebook, scientific calculator, pencil or pen.

Course Objectives:

By the time the student completes this course of study, the student will know or be able to:

1. Describe motion with equations and graphs by using terms such as position, velocity, acceleration etc.
2. Explain all the forces acting on objects and how these forces affect the objects' motion.
3. Identify how much energy an object has due to its position and motion.
4. Compare sound and light waves.
5. State how momentum is conserved in various situations.
6. Describe the properties of electric and magnetic fields.
7. Describe the properties and behavior of waves.

Grades:

1. Homework & Quizzes: Expect homework at least 2 to 3 nights a week.
2. Projects: When we have a lab you will be assessed on your completion of the lab and your comprehension of the lab concepts. Worksheets, CANVAS quizzes, in class assignments, test reviews, etc.
3. Exams: At the end of each unit there will be an exam.

A = 100 - 90

B = 89 - 80

C = 79 - 70

D = 69 - 60

F = 59 - 0

Homework/Quizzes = 20 % of grade

Projects/Labs = 20 % of grade

Exams = 40 % of grade

Notebooks = 10 %

Online Text Book: <http://www.essential-physics.com/EP/stateselect>

Adherence to the Boulder Creek Academic Integrity Code:

All students enrolled in Honors Physics will adhere to the framework and guidelines set forth in the Boulder Creek High School Academic Integrity Code. Cheating and Plagiarism will not be tolerated. The purpose of this code is to promote a positive learning environment for all involved. As humans, we will make mistakes as we grow. It is understood that we can learn from those mistakes and become better individuals in the future. Any student who violates this code will be referred to the Students Rights and Responsibilities handbook and assignment of appropriate consequences. Please refer to the Academic Integrity Code in its entirety for definitions and examples of plagiarism and cheating and strategies on how to avoid these infractions.

Class Expectations:

1. Be prepared with your dry erase marker, charged ipad, note taking notebook, bell work notebook, pen and pencil, and a scientific calculator every day.
2. Respect the rights and property of others at all times.
3. Be in your seat and prepared to begin when the bell rings.
4. Do not talk while someone else is talking.
5. Follow safety guidelines and directions carefully.
6. No hats, gum, food or drink in class.
7. No cell phones or smart watches—you should be using your IPAD exclusively. PARENTS are to call the school directly if an emergency exists. Do not use a pager or cell phone.

Classroom Behavior Expectations and Consequences- PBIS

| | Learning Environment |
|------------------------|--|
| Prepared | <ul style="list-style-type: none"> • Bring materials • Come prepared to learn |
| Respectful | <ul style="list-style-type: none"> • Respect others, their property, equipment, and the facility |
| Integrity | <ul style="list-style-type: none"> • Complete your own work • All cell phones are off and out of sight |
| Discipline | <ul style="list-style-type: none"> • Arrive on time & be in your seat • Behave appropriately and use courteous language • Keep food and drink outside |
| Everyone United | <ul style="list-style-type: none"> • Encourage confidence • Cooperate and collaborate |

Consequences:

1. Verbal warning
2. Isolation in the room, and a parent phone call or email
3. Removal from class, parent phone call or email, and detention
4. Referral
5. Cheating: The student will receive a zero on the assignment! If a student talks during a test for any reason to any student, both students will receive a zero. Manipulating technology or sharing answers on class work is also cheating and you will receive a zero. The presence of a cell phone, smart watch, or other electronic device with photo capability during a test is cheating and will also result in a zero.

Laboratory:

- Horseplay will not be tolerated. Students will leave the lab and will not receive credit.
- Breakage or disfigurement of lab equipment due to vandalism or horseplay will be replaced at the cost to the student.

Late and Assignments:

Late assignments will be accepted up until the unit test to which the assignments correspond.

Exam/Test Retakes:

There will be one exam for each unit. A single retake for each unit exam may be provided at the discretion of the instructor. If a student is absent on exam day, the retake exam will become the only opportunity for the absent student to make up his or her exam and the student will be ineligible for a retake. No additional retake opportunities will be provided to students who miss the retake exam unless that student makes plans with the instructor ahead of time.

Communication:

Please contact the teacher for any student concerns. It is crucial that teachers, parents, and students maintain open lines of communication. Contact information is provided at the top of the first page.

CANVAS and Powerschool Access:

The CANVAS and Powerschools sites allow parents/guardians and students to access the student's grades, attendance, and other information. If you need your access information, please stop by the front desk during business hours. You will need a photo I.D. The web address is: ps.dvusd.org/public