

Ruben S. Ayala High School Science Department
AP Physics 2 **Mr. Daugherty**

Physics is considered to be the most basic science, since it provides an understanding of the every-day and the exotic; unfortunately, to gain this understanding requires quite a bit of math, which is why some people feel that it is the hardest of the introductory sciences. AP Physics 2 is the second of a two-year sequence of algebra-based physics courses, each of which are recognized by the UC system as courses that deserve to be weighted for GPA calculation. Enrollment in AP Physics 2 (this must be taken consecutively, not concurrently) is NOT a requirement for enrollment in AP Physics 1. There are two separate AP Physics exams, one for each course; this allows students to gain credit for two college science courses. Those students wishing to attempt the AP Exam in physics are welcome to sign up for it, but it is not a requirement of enrollment in the course.

REQUIRED MATERIALS: what you must have every day

Study skills materials: pens (more than one color, **and you can't use red**), pencil, standard-sized paper, 3 ring binder (used ONLY FOR PHYSICS)and **scientific calculator**. You may use one of our scientific calculators at any time, but during tests, you must use our pink ones.

Book: Physics by James Walker, Fourth Edition. We currently have a ½ set for the class, so you do not need to bring your book to class, unless you hate to share.

You will also have access to this and other textbooks, in digital format, from our Electronic Library (shared folder on my google drive).

ASSIGNMENT EXPECTATIONS:

Assignments will include:

1. Standard chapter work: outlines, questions, worksheets, etc.
2. Lecture notes
3. Labs & Projects
4. Quizzes, Tests, and a **cumulative** Final Examination (each semester)

Classwork and Homework: Turn your work in **on time**.

I place a stamp at the end of each assignment when it is due; this means that it was on time. Do not ask me to stamp items after the fact. If you feel that there existed a reasonable excuse as to why it was late, (EXCEPT FOR A SIMPLE EXCUSED ABSENCE) you may attach a descriptive note to the assignment, time stamp it, and turn it into my in-box (this is the wire basket found next to the time-stamp machine) for me to evaluate at my convenience.

Grade categories:

Work 20%	Labs & Projects 20%
Tests & Quizzes 40%	Final 20%

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Quizzes: These are given randomly and without notice. Missed quizzes will be pro-rated by the following test. Example: an 82% on the chapter 2+3 test would give you an 82% on a Ch. 2 quiz that you missed.

Labs: All **FORMAL** lab reports are due one week after the activity is completed. You will be responsible for 3-4 formal lab reports during the semester. See lab format sheet for more details concerning the lab write-up; the final version of the lab report must be typed. Frequently we will have “Lab Activities” which will be shorter in duration and not require pre-labs or formal write-ups. Throughout the year, all labs and lab activities will be placed into a comprehensive laboratory journal, consisting of a 3-ring binder with cover page, for you to present to your college registrar’s office, if they want it (some ask for it, in exchange for one additional unit of college credit).

Laboratory safety is one of our prime concerns. Horseplay of any kind within the lab will not be tolerated; a zero for the activity and an administrative referral are the usual repercussions.

Notes: You are expected to take notes during lecture. These should be kept on loose-leaf paper and kept in a 3-ring binder until they are turned in with that chapter’s HW.

Classwork / Homework: Homework will usually include problems from the chapter supplemented with worksheets as needed. Most assignments have a due date soon after being given; these are stamped to show how much was completed/attempted on time. All work should be completed and included in the HW packet, with or without a stamp (an assignment turned in without a stamp is still worth ½ credit); this is usually organized the day **after** the test and turned in at that time. Corrections should be made to incorrect problems which have been gone over in class.

Tests: These are usually worth 100 points, cover 1-2 chapters, and will generally include at least one sample AP Exam-styled free-response problem. Partial credit is given on free-response questions. All tests will be judged impartially to decide if a curve is appropriate; curves will never lower your grade. AP Exam reference materials will be available for each test. You may also prepare a note-page on one side of an 8.5”x11” sheet of paper, handwritten, to use during your test; these may later be used on the final. A bonus 3% can be earned, if you make a note-page for the test and then voluntarily surrender it (and your AP equation sheet) just prior to starting the test.

You have the following two days to make-up a missed test. If you do not show up to take the test, it will be based on your **uncurved** final; missed tests

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due to extended excused absences will have their scores based on the curved final.

Final: A cumulative exam in a multiple-choice format will be taken each semester. It will be curved. If your score on the final is better than your worst test score, and no truancies have been accumulated, then that lowest test will be dropped from the grade calculation; if there are not more than 2 tests on record, then nothing can be dropped. You may use any/all note pages made for the tests on the final. The semester two final will be an actual AP Exam; if time allows, this will be the last practice exam that we take before the AP Exam, otherwise it will be given during senior finals.

Grade Distribution				Work Habits
A+: 100-99%	A: 98-92%	A-: 91-90%	B+: 89-88%	O
B: 87-82%	B-: 81-80%	C+: 79-78%	C: 77-72%	S
C-: 71-70%	D+: 69-68%	D: 67-62%		N
	D-: 61-60%	F: < 60%		U

AP Test Scores: The district administration no longer allows your AP scores to affect your grade in the course

Rules

Primary Rule: Mutual Respect

**I will respect your right to learn, but
you will respect my right to teach and that of your
classmates to learn.**

All following guidelines stem from our one rule:

- We will not pollute each other's environment; *possible sources of pollution being waste, graffiti, gum stalactites, vulgar language, excessively poor hygiene, etc.*

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- We recognize that many people have different learning styles and that our preferred style does not supersede that of another. Therefore, during the times when we are given a chance to work independently, those of us that need quiet to think will not be pestered by our neighbors, those that must collaborate with others may do so in a polite fashion, and those that believe that they think better with an accompanying soundtrack may listen to mp3 players and/or phones with headphones.
- We realize that the academic efforts of others have intrinsic value that we will not degrade by theft or fraud. Cell phones are a primary tool in cheating and will not be tolerated within the classroom, unless you have requested special permission from the instructor. If you have a valid reason to use it, ASK; I will usually allow it.
- We will not waste the time of others; this is frequently done by interrupting the class with a late arrival, an inappropriate outburst, or a derailment of the classes' topic of the moment into the realm of the unrelated, trivial and off-subject.
- We appreciate that everyone has the right to ask questions, yet none of us should monopolize the class.

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Consequences:

Academic dishonesty (cheating):

Minor infractions: While you are expected to frequently work collaboratively, there is a big difference between working with someone and copying their work; crossing this line frequently results in papers being ripped in half (sometimes for a whole team).

Moderate infractions: Falsifying a document (faking a stamp, putting a new title on an old assignment, putting your name on another person's paper, etc.) is a consciously committed act that will earn a zero for an entire chapter's work packet (and a "u" in citizenship).

Major infractions: Cheating on a test will always result in a score of zero and a parent conference.

Second offense (does not apply to minor infractions): student may not earn higher than a D- in the course.

Turnitin.com: Some of your work will be expected to be typed and submitted to the [turnitin](https://www.turnitin.com) website. Assignments shown to be plagiarized will be given half or zero credit, at my discretion.

Violation of classroom rules will first result in a warning, usually followed by a classroom detention; these are served with Mr. Daugherty, after school, and will generally be spent cleaning. Detentions must be served within one week, and until a detention is served, the student loses all classroom privileges, such as use of passes and any extra credit opportunities; unserved detentions become two administrative detentions and a maximum citizenship score of "n". Further or blatant disregard of classroom rules will result in administrative referrals.

Cell Phones: Occasionally permission will be given to the whole class for use of cell phones, usually for the purpose of documenting some demonstration or lab activity. If you ask if you can take a picture of something (such as a long derivation made on the board, right before the end of class), then I usually say yes. Otherwise, cell phones will be confiscated if they are powered up and noticed and a detention will be issued. Confiscated cell phones will not be turned into the office any sooner than 3pm that day; showing up for the cleaning detention that same day, allows the phone to be returned at that time and not get turned into the office (this is allowed once per month). If any phones are confiscated from a team more than twice in a 6-week grading period, then the whole team is assigned a detention. This document is your **only** warning.

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Music apps: As stated in the rules, I do allow their use during times designated for individual work. (As long as I cannot hear your music!) If they are a distraction, or if they are used rudely, then the ear buds will be confiscated. These stay with me until you serve a cleaning detention.

Being unprepared:

- Participation in labs may be denied if pre-labs are not prepared for the activity.
- Being absent the day before the test and/or not having a note page prepared does not postpone the taking of the test.
- I do not provide study skills materials. You must have an agenda (maybe a borrowed one) to use the restroom.

General Procedures

Labelling of work: Every paper that you turn in should have a **title** at the center of the top line, and your **name** (printed), and the **date assigned** in the upper right corner, **IN INK**.

Boxes: Within 1 minute of the bell ringing, your work that is due that day should be placed in the in-box; this will be facilitated if papers that need stapling have already been stapled at home. If I stamp your papers that same day, then they will go to the out-box and be returned to your lab table where you distribute them amongst your team. If they are not returned that same period, then they will be found in your period's return-box. All boxes are found to the side of the door. Please note, that digging through the return box is considered an offer to pass back all papers.

Absences: If you experience an excused absence, you may still receive credit as if you were present for the stamping process; instead, you must come to my desk either before or after class so that I can look over your work and stamp it.

You then keep the paper until the work packet is assembled. Since all assignments are listed on our website, I do not allow a full day for each day absent (since you should have accessed the website and started on it before returning); you are allowed $\frac{1}{2}$ day per day absent, rounded up to the full day. Thus, you get one day to make up work for one or two days absent, and two days if absent 3 or 4 days, etc.

If you miss a lab, you will usually be able to make it up during one of the next 2 tutoring hours following the lab activity. Occasionally, an equivalent virtual lab may be assigned. The lab write-up is then due one week later.

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Work Packets: The day after a test or quiz, you come to class with all papers pertaining to the chapter(s) completed, including any notes taken. We will define an order that we want the papers in, then you staple it in the upper left corner; we do charge points for bad stapling. Late packets are penalized 10% per day, down to 50%. Usually 2-3 days after they are turned in, we trade & grade them. You will be provided a tally sheet with maximum scores for each item and notes of what to expect; everyone grades one paper from another period, printing their name in the CB area and signing it. Falsely exaggerating someone's score results in the grader being penalized twice as much as the value of the exaggeration. Packets are spot-checked by Mr. Daugherty, then recorded and returned. If you feel that the peer grader did not award you as many points as you deserved, you may write a note on the receipt or first page and place it in Mr. Daugherty's in-box (next to the time clock); he will personally examine your packet and determine if you earned more points.

Passes: I honor the renaissance rewards cards. An "oops" serves as a ONE DAY extension on any assignment, while a homework pass can be used for TWO DAYS. I also award some in-class HW passes that are treated similarly. Any left-over academic passes may be cashed in for a small bonus on the final; this includes those on your rewards card.

Office Hours: I hope to provide after school office hours on a weekly basis, time and date TBA.

my email: m_daughertysaunders@chino.k12.ca.us

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