

# Course Guidelines and Expectations

Course: AP<sup>®</sup> Physics I

Teacher: Ms. K. Ramin

Classroom: 502

**Office Hours:** I will be checking email daily during the school week 7:30-3:00. In person meetings by appointment per COVID protocol.

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**Remind 101: Text 81010 @raminappi**

**Materials Needed as we cannot use class sets:** 3 ring binder/folder, college ruled notebook of choice, colored pencils or colored pens, scissors, highlighter, calculator, ruler, erasers, red pen and pencils (I prefer mechanical pencils). **OPTIONAL, but helpful:** hand sanitizer, mini Kleenex, sticky notes, correction tape, water bottle with straw. **There is also a mandatory \$15 lab fee.**

## Textbook Information

Students will check out “College Physics: AP Edition” as well as utilize [openstax.org/college-physics-ap-courses](https://openstax.org/college-physics-ap-courses)

## Course Outline

The AP<sup>®</sup> Physics 1 course meets every day, either face-to-face or at home learning. The course is an inquiry-based course that focuses on experimentation and also conceptual understanding. Lessons that are teacher oriented will include the derivation of equations, demonstrations of physical phenomena, vocabulary associated with the content, and addressing any questions from the students based upon the material covered. The content of this course is based upon 6 big ideas:

Big Idea 1 – Objects and systems have properties such as mass and charge. Systems may have internal structure.

Big Idea 2 – Fields existing in space can be used to explain interactions.

Big Idea 3 – The interactions of an object with other objects can be described by forces.

Big Idea 4 – Interactions between systems can result in charges in those systems.

Big Idea 5 – Changes that occur as a result of interactions are constrained by conservation laws.

Big Idea 6 – Waves can transfer energy and momentum from one location to another without the permanent transfer of mass and serve as a mathematical model for the discretion of other phenomena.

## Student Practice

Throughout each unit, **Topic Questions** will be provided to help students check their understanding. The Topic Questions are especially useful for confirming understanding of difficult or foundational topics before moving on to new content or skills that build upon prior topics. Topic Questions can be assigned before, during, or after a lesson, and as in-class work or homework. Students will get rationales for each **Topic Question** that will help them understand why an answer is correct or incorrect, and their results will reveal misunderstandings to help them target the content and skills needed for additional practice.

At the end of each unit or at key points within a unit, **Personal Progress Checks** will be provided in class or as homework assignments in AP Classroom. Students will get a personal report with feedback on every topic, skill, and question that they can use to chart their progress, and their results will come with rationales that explain every question’s answer. One to two class periods are set aside to re-teach skills based on the results of the Personal Progress Checks.

## Course Content Sequence:

1. Kinematics
2. Dynamics
3. Circular motion and Gravitation
4. Energy
5. Momentum
6. Simple Harmonic Motion
7. Torque and Rotational Motion
8. Electric Charge and Electric Force
9. DC Circuits
10. Mechanical Waves and Sound

## Labs

Laboratory investigations will occupy 25-50% of our class time. In the laboratory investigations students, will learn and master the usage of physical and scientific equipment. Students will use different methods of measuring, charting, calculating, and error analysis while completing the investigations. These investigations can be used to either introduce a new topic or to reinforce material previously covered. All investigations are typically guided, with the variables needed to be measured and calculated identified for the students. Of the labs performed, more than half are guided - and open-inquiry based. We will be utilizing some virtual data collection and analysis this year due to restrictions placed by the Health District.

In these laboratory investigations students, will work in groups to the extent allowed by social distancing and non-sharing of materials, but each student is responsible for completing their own work and paper lab report. Each lab report will consist of:

- Title
- Purpose: What is the purpose of the lab? What are we trying to find?
- Design: A diagram of the lab setup, list of equipment, and description of procedure
- Data: All data that is collected in the lab.
- Data Analysis: Any calculations done in the lab, including graphs
- Error Analysis: Sources of error and their effect on results
- Conclusion: A statement that describes the purpose and essence of the investigation.

All lab reports will be collected in a final lab portfolio (electronic). You will need to keep the portfolio to show to college/university admissions to verify the laboratory component was met in this course.

## Pens with Friends

One of the most important skills for success in AP Physics 1 is argumentation. During each unit, students will participate in two rounds of “Pens with Friends”. “Pens with Friends” consists of two parts: “Friends without Pens” and “Pens without Friends”. The first part, students are paired up randomly and given a problem that pertains to the current unit. Students will have a set amount of time to discuss the problem, without writing anything down. This will help students develop oral scientific argumentation skills. The second part, “Pens without Friends”, students will work on the same problem, independently without discussing it with anyone else. This will help students develop writing scientific argumentation skills. When both parts are complete, students will then grade a random classmates written portion in hopes to help the student understand the AP grading process.

## Final Project

After the AP Exam in May, students will work on their final projects. There will be more information given about the final project after the AP exam.

## 1. ATTENDANCE & TARDY POLICY

- Attendance will be taken every day, whether we are face-to-face or learning from home.
- Students will be required to make up work for days they miss for any reason.
  - If an assessment is missed, you must make-up the assessment within 3 days of return.
- Work assigned by the teacher will count towards your semester grade. If work is not turned in from face-to-face instruction or learning from home students' grades will be negatively impacted.
- If you know in advance that you will miss class, it is your responsibility to make arrangements with me prior to the absence so we may discuss missing work. These absences include sporting events, doctor appointments, team competitions, etc. Students who are absent due to illness or emergency are responsible for the material covered in class and any assigned assignments. Please consider getting a classmate's phone number.
- It is your responsibility to keep up with Teams and communicate with me to make up assignments, labs, or tests. **I cannot assist you during class unless there is an activity that allows me to spend time getting the assignment for you.**

## 2. GRADING POLICY – please read carefully!

AP® Physics I students will be assessed on science skills and application of concepts. Students will show proficiency in doing the required skills and demonstrating appropriate mastery of the standards set forth by Nevada.

**Please check Infinite Campus to monitor grade.**

### Homework

Throughout the year, you will be learning an enormous amount of exciting concepts. In order to be successful, **you** must dedicate some time and energy to learning the material. Successful students do some type of homework for this class every evening. If nothing is due the next day, consider doing part of a long-term assignment, reviewing past assignments, organizing your notebook, or reading over lecture notes for the upcoming test.

### Academic Grades

Grades will be weighted in the following way:

<b>Mastery:</b>	<b>60%</b>
Test, Quiz, Formal Lab Write-Ups, CER writing, Projects	
<b>Practice:</b>	<b>20%</b>
Daily work, Discussions, Practice Pages, Progress Checks	
<b>Final Exam:</b>	<b>20%</b>
	<b>100%</b>

### Grading Scale

A	90 – 100
B	80 - 89
C	70 - 79
D	60 - 69
F	0 - 59

Your grade is determined by how well you do on tests, quizzes, labs, practice work, and projects.

## 3. CLASSROOM “HOME BASE”: please make sure you have the following Apps downloaded.

- Microsoft Teams
- Microsoft OneNote
- Microsoft Outlook ([studentID@washoeschools.org](mailto:studentID@washoeschools.org))

You will find all of our lessons, notes, and assignment links on your class period's Teams Page and our OneNote books.

#### 4. **MCQUEEN CELL PHONE POLICY:**

**Students will be required to have their cell phones and personal electronics in the off position during class time.**

- There will be a holder available for cell phone placement OR students may keep the phone off and in his/her backpack.
  - a. This is to ensure there are fewer distractions, less theft of devices, and full engagement of students during ALL class time.
  - b. In case of emergencies, and/or the need to speak with your child during class hours, parents may contact the school and hit zero for the operator.
- Students may NOT use electronic devices going to and from the restroom, library, office, etc. during class time. Headphones may not be used, out or visible at any time during class.
- Items considered personal electronics:
  - Including but not limited to: Smart Watches, CD Players, MP3 players, IPODS, Phones, Game Boy, and Cameras.

**Technology violations progressive discipline plan:**  
**(Please read carefully as the consequences have changed)**

**First offence:** cell phone/electronic device will be confiscated and returned to the student at the end of the school day. Parent will be notified.

**Second offence:** cell phone/ electronic device will be confiscated, parent will be notified, and **the parent will be required to pick up the cell phone/electronic device.**

**Third offence:** cell phone/electronic device will be confiscated and delivered to SRO. Parent will be required to pick up cell phone and SRO will assign consequences which may include suspension.

#### 5. **CELL PHONE FOR CLASS USE:**

- **The exception to the above school rule is when we are using the devices for class work.**
- **We will be using the following apps on devices: Microsoft Teams, Microsoft OneNote, Microsoft Outlook, Remind, College Board, AP classroom. Please download the apps and be prepared to use them.**
- **When we are using personal devices in class the icon will be identified on the board and should remain on silent, all apps closed, until asked to follow the specific class instructions.**

#### 6. **FOOD AND DRINK:**

- Food or drink are NOT ALLOWED in the science classroom, with the exception of water bottles with tight closing lids, straws are encouraged this year with mask use. Any open food or drink containers brought into class will be thrown away.
- Unfortunately, this year classrooms will be closed at lunch. No students will be allowed in the classroom at lunch time. There may be exceptions to this if an assessment needs to be completed, but no food will be allowed.

#### 7. **RESTROOM POLICY:**

- One student at a time is permitted out of the room for the restroom.
- You will need a yellow pass from me.
- There are no passes given the first 10 or last 10 minutes of class per McQueen rules.

#### 8. **Citizenship Grades**

Citizenship grades are based on classroom behaviors, and the ability to follow WCSD rules, including gum and tardiness. Each infraction lowers your citizenship grade one-half letter grade. The school's progressive discipline plan will be followed.

## 9. PROGRESSIVE DISCIPLINE

Progressive discipline follows the guidelines set out by the WCSD and McQueen High School.

1<sup>st</sup> infraction will result in a discussion with the teacher.

2<sup>nd</sup> infraction will result in an email/call home to guardian.

3<sup>rd</sup> infraction will involve SRO. Serious infractions **may** result in immediate office referral.

## 10. COVID SAFETY

1. Students are encouraged to wash/sanitize hands before and after class.
2. Students will always wear a mask in class.
3. Desks will be individualized, and specific seats apply to periods.
4. Students are to maintain 6 feet of social distancing while in class
5. No sharing of masks, supplies, lab equipment, or any other items.
6. See the teacher with any COVID safety concerns.
7. Walking around the room will be prohibited.
8. All district regulations for self-monitoring before coming to school apply to this class.
9. If you are not feeling well, please do not come to school.

### **Test Retake Opportunity**

Students have the option of retaking any test under the following guidelines:

**Redo & Relearn for must be completed before retake, Parent/guardian must sign that studying/preparing has occurred before retake.**

- (a) The retake must be scheduled within one week of receiving the graded test, excluding excused absences.
- (b) I will keep the retake score, so be sure to study before taking the assessment again.
- (c) Retake tests will cover the exact same content but may not be in the same format.  
(Quizzes may not be retaken.)

### **Academic Dishonesty\***

Academic dishonesty in any form will not be tolerated. This includes, but is not limited to,

- (a) Copying other students' work without discussing it
- (b) Using the same exact wording as your lab partner on an assignment
- (c) Plagiarism (always cite your sources)

\*Students will receive a zero for the assignment and all extra credit points for the semester will be removed. A parent/teacher conference may be scheduled to discuss further consequences if it becomes an issue again.

\*Note that repeated dishonesty may lead to a failing grade in the course whereupon students will be required to repeat the course.

**You will be asked to verify that you are participating in Academic Integrity for online assignments. Please be mindful that you will harm your own academic growth by not answering questions honestly without assistance.**

## Please sign and return this paper within one week.

### **Dear Parent or Guardian:**

As stated in the registration catalogue for the 2020-2021 school year, there will be a **\$15 lab fee** for your child's science class. The fees that are collected are used for a variety of materials that make this class a lab based, hands on learning experience for your child. The fees are spent on items such batteries, cables, wire, carts, k'nex, measuring tools, as well as other miscellaneous items that help supplement the science curriculum. *Please understand that many more consumables will need to be purchased this year to support Health District guidelines of not sharing materials.*

Please remember that lab fees are due by the end of September, but the sooner the better. Your cooperation and support are appreciated! If you have any questions, please feel free to contact me at [Kramin@washoeschools.net](mailto:Kramin@washoeschools.net)

As part of taking this Advanced Placement (AP) class, students will be required to set up an online account with the College Board (the company that oversees the AP Program), if they don't already have one. With a College Board account, students can access AP curriculum supports, SAT and AP scores, and send them to colleges. Additionally, an account lets students manage personal college lists, save scholarship searches, compare costs at colleges of interest, and more. When setting up the account, students will need to use a personal email address in order to have access to the account long term, since their WCSD email address will no longer be active after the student graduates. They will also need to supply the College Board with identifying information such as full name, email address, high school name, year of graduation, and home address. You can access the College Board Terms and Conditions here: <https://about.collegeboard.org/site-terms> and their Privacy Policy here: <https://about.collegeboard.org/privacy-policy>. By signing below, I acknowledge the foregoing account requirements and consent to my student registering for an online account with the College Board using the foregoing required information.

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## **AP® Physics I 1-2 Statement of Understanding**

I, \_\_\_\_\_ (PRINT NAME) have read and understand the course requirements for AP® Physics I 2020-2021 school year. I understand that tardiness, absences and inappropriate use of electronics impact not only my performance and learning, but also my classmate's ability to learn. I understand the WCSD attendance policy, McQueen high school cell phone policy, and grading policy. I understand that I need a College Board account. I accept Ms. Ramin's tardy and attendance policy, McQueen's cell phone policy and McQ's science department's grading policy.

*I understand I must take the AP® Physics I exam in May of 2021.*

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**Student signature**

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**date**

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**Parent signature**

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**date**

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