2023-2024 Syllabus – AP Physics 1

Dr. Suspa Chowdhury Sinha

Classroom Objectives:
• Maximize learning opportunities for all students via diverse and data-driven instruction
• Foster a community of respect, integrity, and inclusion both in and out of the classroom
• Share personal experiences and knowledge to help students succeed in all aspects of life

Information from College Board regarding the AP Physics 1 Course:

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, and torque and rotational motion.

The AP Physics 1 Exam assesses student application of the science practices and understanding of the learning objectives outlined in the course framework. The exam is 3 hours long and includes 50 multiple-choice questions and 5 free-response questions. The 5 free-response questions may appear in any order on the AP Exam. A four-function, scientific, or graphing calculator is allowed on both sections of the exam.

AP Physics 1 Tentative Unit Schedule:

<table>
<thead>
<tr>
<th>Unit</th>
<th>Date Range</th>
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</thead>
<tbody>
<tr>
<td>1 – Kinematics</td>
<td>8/28 – 9/29</td>
</tr>
<tr>
<td>2 – Dynamics</td>
<td>10/2 – 10/27</td>
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<tr>
<td>4 – Energy</td>
<td>10/30 – 12/1</td>
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<tr>
<td>5 – Momentum</td>
<td>12/4 – 12/15</td>
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<tr>
<td>Fall Sem Final</td>
<td>12/18 – 12/22</td>
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<tr>
<td>3 – Circular Motion</td>
<td>1/9 – 1/23</td>
</tr>
<tr>
<td>6 – Simple Harmonic Motion</td>
<td>1/24 – 2/13</td>
</tr>
<tr>
<td>7 – Rotational Motion</td>
<td>2/14 – 3/22</td>
</tr>
<tr>
<td>Review</td>
<td>3/26 – 5/16</td>
</tr>
<tr>
<td>Research Project</td>
<td>5/18 – 5/31</td>
</tr>
</tbody>
</table>

AP Physics 1 Exam: 17th May 8 am

Teacher Contact Information:
Schowdhu@houstonisd.org
281-920-8000 extn. 222
"Remind" App Code: Send a text to 81010 text @4774gga
Non-Instructional Time Summary:

<table>
<thead>
<tr>
<th>Description</th>
<th>Days / Times</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tutorial Hours</td>
<td>M/Tu: 12:00 – 12:30</td>
<td>Student support, long clarification, solving any issues.</td>
</tr>
<tr>
<td></td>
<td>W: 11:35 – 12:00</td>
<td></td>
</tr>
<tr>
<td>Conference Period</td>
<td>M/Tu/F: 9:46 – 10:37</td>
<td>Parent / Teacher conferences, instructional planning, administrative tasks</td>
</tr>
<tr>
<td></td>
<td>W: 8:50 – 10:22</td>
<td></td>
</tr>
<tr>
<td>Quiet Time</td>
<td>6:00pm – 7:00am, Weekends</td>
<td>Dr. Sinha’s time away from work (though I often respond to school-related messages)</td>
</tr>
</tbody>
</table>

Classwork and Grading Policy

- Assignments for AP Physics will include reading, labs, and other homework
  - Assignments will be listed in Canvas but may utilize other digital resources
  - Homework assignments in AP Classroom must be submitted digitally, but each submission must be accompanied with work shown on paper (turn in BOTH)
  - This is a college-level course; therefore college-level rigor and difficulty are required
  - Students should expect significant time spent on the class OUTSIDE of class hours
- Each assignment will include a due date to ensure content is learned at the appropriate time
  - Assignments completed on or before the due date will have a maximum score of 100%
  - Assignments completed after the due date will have a maximum score of 80%
    - No assignments will be accepted more than three days after the original due date
  - For extenuating circumstances such as excused absences, alternative due dates may be arranged at the discretion of the teacher
- Grading
  - Students should complete all assigned reading and questions; however, every question may or may not be graded
  - The teacher will not announce ahead of time which questions are graded
  - Re-takes / Re-dos
    - Consistent with school policy, students that fail a major grade will have the opportunity to re-take the assessment or re-do the assignment.
    - Re-takes / re-dos will have a maximum 70% score.
    - Re-takes / re-dos must be completed within three days of the score release date or the end of the 6-week grading period (whichever comes first)
  - Grade weight by assessment type:
    - Unit Tests and Projects – 70%
    - Labs/Quizzes – 30% (may have x2 weightage)
    - Classwork and homework – 30%
  - Please note that POWERSCHOOL is the official gradebook, not Canvas

Tardy / Absence Policy:

- The purpose of the tardy policy is to maximize instructional time with every student
- Students are expected to arrive in the classroom and be seated before the tardy bell rings
  - Students arriving less than 15 minutes late on Mon/ Tues/Fridays or less than 30 minutes late on Wednes/Thursdays will be considered tardy.
Students arriving more than 15 minutes late on Mon/Tues/Fridays or more than 30 minutes late on Wednes/Thursdays will be considered absent.

A signed pass with date and time from a teacher or administrator will be accepted, though these occurrences should be minimized.

**Restroom Policy:**

- Students are expected to use restroom facilities during passing periods or lunch and should plan accordingly
- Students should use the restroom during class time sparingly:
  - No students may use the restroom during the first 15 minutes or last 15 minutes of class time.
  - Only one student (regardless of gender) may leave the classroom at a time
  - Students must request a hall pass and return within 5 minutes of leaving

**Electronics Policy:**

- Students will put away phones and earbuds in their bags prior to entering the classroom
- Failure to follow teacher directions regarding electronics will result in temporary confiscation of devices consistent with school policy
- Special notes on laptops:
  - Students will need laptops every day for lectures, assignments, labs, and assessments
  - Laptops should only be used for appropriate activities as directed by the teacher

**Other Classroom Policies**

All students need to maintain a binder for this class.

- **Food and drinks**
  - Students may drink water in the classroom
  - No other food or drink may be consumed in the classroom
- **Assigned seats**
  - Students should sit according to the seating chart and begin work on the "Do Now" posted activity
- **"Remind" App**
  - Students and parents are highly encouraged to download the "Remind" app
  - This app is used for one-way communication from the teacher.
  - To join, text the following code to "81010": @4774gga
- **MS-TEAM**
  - Each class period will be given a code to join the Team for that period by 5th September. This will be used for communication between teacher-student and student-student.

*Please read carefully and sign below:*

___________________________________                        ________________
Parent’s Name                                            Parent’s Signature and date

___________________________________                        ________________
Student’s Name                                           Student’s Signature and date