

2020-2021 Syllabus – AP Physics

Mr. Jonathan Lowe

Waltrip Mission Statement

Waltrip High School fosters a safe and challenging learning environment, preparing students for post-secondary education and a competitive global workforce through rigorous core academic instruction, comprehensive social-emotional supports, an array of quality fine arts and athletics programs, and comprehensive career and technology education.

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.

The exam is currently scheduled for the second week of May.

AP Physics 1 Unit Schedule:

<u>Unit</u>	<u>Date Range</u>	<u>OpenStax Chapters</u>	<u>Labs</u>
1 – Kinematics	8/23 – 9/24	2, 3	So You Think You are Fast; AP Investigation 1 (Balls on Track); Hit the Teacher
2 – Dynamics	9/25 – 10/22	4, 5	AP Investigation 2 (Atwoods); Mu of Your Shoe
3 – Circular Motion	10/23 – 11/5	6	AP Investigation 3 (The Flying Pig)
4 – Energy	11/6 – 12/15	7	AP Investigation 4 (Cart Energy); Spring Constant Investigation
5 – Momentum	12/16 – 2/4	8	Egg Drop, AP Investigation 5 (Spring-Loaded Cart)
6 – Simple Harmonic Motion	2/5 – 2/18	16	AP Investigation 6 (Pendulum)
7 – Rotational Motion	2/19 – 4/1	9, 10	Meter-stick Torque Lab; AP Investigation 7 (Rolling Objects)

Teacher Contact Information:

Jonathan.lowe@houstonisd.org
 (409) 241-6120
 "Remind" App Code: @lowephys21

Non-Instructional Time Summary:

Description	Days / Times	Purpose
Office Hours	W, F: 7:30 – 8:20	Tutorials by appointment
Conference Period	M: 12:45 – 1:25 T/Th: 12:55 – 2:25	Parent / Teacher conferences, instructional planning, administrative tasks
Quiet Time	4:00pm – 7:30am, Weekends	Mr. Lowe's time away from work (though I often respond to school-related messages)

Classwork and Grading Policy

- Assignments for AP Physics will include reading, labs, and other homework
 - Assignments will be listed in the HUB but may utilize other digital resources
 - Students need to acknowledge completion of assignments in the HUB even if they submit assignments in other platforms
 - 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
 - Timing of completion is determined electronically using digital platforms
 - For extenuating circumstances such as unforeseen 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 an assessment or assignment will have the opportunity to re-take the assessment or re-do the assignment
 - Re-takes / re-dos will have a maximum 80% score
 - Re-takes / re-dos must be completed within three days of the original due date or the end of the 6-week grading period (whichever comes first)
 - Grade weight by assessment type:
 - Exams & Quizzes – 50%
 - Labs – 25%
 - Classwork and homework – 15%
 - Participation – 10%

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 Mondays or less than 30 minutes late Tuesday - Friday will be considered tardy
 - Students arriving greater than 15 minutes late on Mondays or greater than 30 minutes late Tuesday - Friday will be considered absent
 - A signed pass 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 use the restroom at a time
 - Students must use the class 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

- Food and drinks
 - Students may drink water in the classroom
 - No other food or drink may be consumed in the classroom
- Entering the classroom
 - Only the door in the front of the classroom will be unlocked for entry
 - All materials aside from the student laptops, notebooks, and writing utensils should be placed on the side counters or the floor near students' seats
 - Nearly all the coursework will be administered electronically
 - 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 seamless communication between all parties
 - To join, text the following code to "81010": @lowephys21