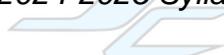


AP PHYSICS 1

2024-2025 Syllabus



James Clemens High School
11306 County Line Road
Madison, AL 35756

Teacher: Tammy Simons
Email: tssimons@madisoncity.k12.al.us
Phone: 256-261-5313

- I. Course Description:** Physics is the science that deals with the relationship between matter and energy. This course is an excellent preparation for college-bound students. A strong background in math is recommended.
- II. Course Objectives:** Students will master topics in the following areas: mechanics including forces and motion in one and two dimensions, gravitation, conservation of momentum and energy, work, rotational dynamics, simple harmonic motion, and fluids.
- III. Classroom Expectations:** All students should be prepared when coming to class. Work is to start immediately. Students will be expected to do all assigned work. Students are to follow all James Clemens High School and Madison City Schools general expectations.

Accommodations:

Requests for accommodations for this course or any school event are welcomed from students and parents.

Laptop Utilization:

If technology is needed in the classroom, then **school issued Chromebooks must be used**. Personal electronic devices may only be used **at the teachers' discretion**.

Cell Phones – District Policy:

Cell phones and earbuds/headphones will not be allowed to be used during classroom instruction time, unless directed by the teacher. Phones and earbuds/headphones will be put away in a location designated by the teacher and placed in silent mode. In secondary schools, students will have access to their phones and earbuds/headphones only outside of classroom instruction time such as between classes and lunch. Failure to follow these procedures will result in a disciplinary referral to the office.

Using AI:

There are times when ChatGPT or AI may be helpful, but usually it is not a good tool for learning physics. All use of AI **MUST** have prior teacher approval. **All assignments are subject to a verbal review follow-up. Students using AI without approval or copying from another student will receive a score of zero for that assignment.**

- IV. Grading Policy:** Test grades will account for 70% of the 9-weeks grade, with the remaining 30% being determined by quiz/daily grades. The grading scale is as follows: A (90-100), B (80-89), C (70-79), D (65-69), and F (below 65). Grades will be a reflection of mastery of the standards. Make sure all absences are excused as class work can be made up and graded for excused absences only. The Final counts for 20% of the overall grade. **No makeup for unexcused absences for minor grades or minor grades not turned in on time.**

All daily assignments must be upload to Schoology by the deadline posted. **LATE WORK IS NOT ACCEPTED ON DAILY ASSIGNMENTS.**

- V. Make-up Test Policy:** Makeup tests for excused absences will be given in my classroom, B110 during Refuel on designated days.
- VI. Text and Other Required Reading:** **Text:** *College Physics, A Strategic Approach* (Knight) 2015. Optional free online textbook: *College Physics (AP)*, from <https://openstaxcollege.org/>
- VII. Materials and Supplies Needed:** 3-ring binder, paper, pencil, pen, dry erase markers, and **scientific calculator** (cell phone calculators are NOT acceptable).

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18 – WEEK PLAN*	
Week 1	Introduction to Physics; Velocity
Week 2	Linear Kinematics using one-dimensional vectors
Week 3	Linear Kinematics using one-dimensional vectors
Week 4	Uniform Acceleration
Week 5	Static Forces and Newton's Laws
Week 6	Free Body Diagrams and Dynamic Forces
Week 7	Newton's Laws of Motion
Week 8	Projectile and Circular Motion using two-dimensional vectors
Week 9	Projectile and Circular Motion using two-dimensional vectors
Week 10	Planetary motion and navigation in space in terms of Kepler's and Newton's laws
Week 11	Rotation, Angular Momentum, Torque
Week 12	Rotation, Angular Momentum, Torque
Week 13	Work, Energy, and Power
Week 14	Work, Energy, and Power, Impulse, Momentum
Week 15	Conservation of Momentum
Week 16	Simple Harmonic Oscillators
Week 17	Fluids
Week 18	Review

* The syllabus serves as a guide for both the teacher and student; however, during the term it may become necessary to make additions, deletions, or substitutions. Adequate notice will be provided to students of any necessary changes.

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Dear Parent/Guardian,

I look forward to having a great year! I feel fortunate to have your son/daughter in my class this semester and hope that you will contact me should you have any concerns about the progress of your son/daughter or any aspect of the instruction. With your son/daughter, please read the attached policies, then **fill out the online form** with the link provided below. Please provide a current email address and phone number at which I can contact you should the need arise. Please contact me at school with any concerns.

Thank you,

Mrs. Simons

Instead of printing out a page saying you have received and read the syllabus, please fill out this online survey with your contact information! 😊

<https://tinyurl.com/JCPhys2425>