

AP PHYSICS 1

SUMMER ASSIGNMENT

THE BOLLES SCHOOL

Congratulations on accepting the challenge of AP Physics 1 for next school year! To maximize our class time, students enrolled in AP Physics 1 must complete the following tasks prior to the first day of class.

1. MATH REVIEW

AP Physics 1 is more an Applied Mathematics course than a Science course. It is because of this that the Bolles Curriculum Guide states that all students in AP Physics 1 must either have already completed or be concurrently enrolled in Precalculus Honors/AP. Algebra 2 and Geometry skills will not be reviewed at the start of the year, so it is essential that you complete a short review of these skills. These skills include metric conversion, quadratic equations, systems of simultaneous linear equations, basic right triangle geometry and trigonometry, and algebraic equation rearrangement.

- The “AP Physics 1 Summer Math Review” worksheet is available on Mr. Skapetis’ class website – www.skaphysics.com – in the “DOWNLOADS” -> “AP PHYSICS 1”-> “Unit 0” -> “Summer Assignment”. The worksheet is the first item in the list of downloadable documents.
- Complete all problems and bring your completed assignment to the first day of class. **Your solutions must show ALL work to be scored as complete.**

2. TEXTBOOK

The College Board designed AP Physics 1 as a course that does not require a first year of Physics. Though students who have completed a full year of Physics or Physics Honors may have a slight advantage, many students who have never had any Physics preparation have been highly successful in AP Physics 1. Although a year of Physics is not required, the Bolles Curriculum Guide states that all students must have completed a year of Biology along with a final grade of B+ or better in either Chemistry AB or Chemistry Honors.

- There is a FREE downloadable textbook that can be used as a resource.
- Download a pdf of **OPENSTAX COLLEGE PHYSICS** (NOT *College Physics for AP Courses*)
<https://openstax.org/details/books/college-physics>
- Students Must also purchase the latest edition of the McGraw-Hill exam prep publication **5 STEPS TO A 5: AP PHYSICS 1: ALGEBRA-BASED Elite Student Edition 2025** by Greg Jacobs. This should be done when the 2025 edition is published (Usually around July).

3. REQUIRED SOFTWARE

We will be using Various software on our phones and computer to complete investigations throughout the year

- Video Physics (Phone only Vernier)
- Phyphox (phone only)
- Graphical Analysis (Computer - NOT GW! Vernier)

Once downloaded, experiment with [Video Physics](#) and [Phyphox](#)

***If you have any further questions,
please contact Mr. Skapetis at skapetisd@bolles.org or Dr. Lieb at
liebj@bolles.org
and SEE YOU IN AUGUST!***