

Hahnville High School



Advanced Placement Program

AP Physics I

Course

Recommendations:

- It is based upon scientific inquiry, conceptual understanding, and critical thinking.
- Students should have a strong understanding of mathematics and the motivation and ability to be committed.
- Students should be willing to spend time to improve out of a personal desire for success rather than simply for a grade.

About the class....

AP Physics I is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations. They will explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. The course is based on six Big Ideas, which encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world. Additionally, there is instructional time devoted to hands-on laboratory work with an emphasis on inquiry-based investigations. Investigations will require students to ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting where they direct and monitor their progress.

Homework/Classwork

AP Physics requires one to two hours of studying per night. Generally, three to five problems will be assigned per class period to be collected and graded at the start of the next class. Lab write-ups will be required, which may take several homework hours to create. Summer packet, group projects, individual projects, reading of the textbook, taking notes, and taking the AP Physics I exam will also be required of enrollees.