

Physics Syllabus (Fall 2022)

Teacher: Krystle Holland

Planning: 2nd Period/ 8:15a-9:10a

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Course Description

The physics course helps students recognize the nature and scope of physics and its relationship to the other sciences. Students will learn about basic topics such as motion, forces, energy, momentum, heat and heat transfer, waves, electricity, and magnetism.

Supplies

- x Required:
 - o Paper
 - o Pencil
 - o Calculator
 - o Computer
- x Recommended:
 - o Color Pencils
 - o Binder

Grading

Grades are accessible on the school website through Infinite Campus (IC). Grades will be based on cumulative points earned and each test, lab, assignment, etc. will have appropriate point values assigned. Because students are expected to master the content, grade recovery will be ongoing throughout the school year. Students will be offered a make-up day on the last school day of each week. Students will also be offered two weeks at the end of the semester to make up any assignments (11/28-12/9). Academic dishonesty will result in the student receiving NO CREDIT for that graded item and there is no option to recover the associated points. Students will be allowed to make-up/re-submit assignments until a date chosen at the end of the semester (December 9, 2022). All assignments will lock on this date and no further assignments will be accepted.

Exams

At the end of each unit, an exam will be given with questions ranging in type. The exam will be timed according to the bell schedule. Students are to complete each exam independently. A final exam will be given at the end of the year.

Expectations

In this course, you are expected to work. Each student is held to the same expectations and will be pushed to achieve. Each student will be expected to follow the rules set in the classroom. Students will also be expected to participate in each class period, including labs, projects, and discussions. Students will be expected to keep any personal electronics out of sight. Students will also be expected to explain material orally and in writing. Students are expected to complete all work by the designated due date. A high level of honesty will also be expected.

Topic Outline for the Year

Physics A

- x Unit 0: Think Like a Scientist
- x Unit 1: Kinematics
- x Unit 2: Forces
- x Unit 3: Gravitation and Circular Motion
- x Unit 4: Momentum

Physics B

- x Unit 5: Work-Energy-Theorem
- x Unit 6: Nuclear Energy
- x Unit 7: Electricity & Magnetism
- x Unit 8: Waves