

Pompano Beach High Syllabus Physics I Honors

Textbook: Physics, Holt, Serway & Faughn

Required Materials:

<ul style="list-style-type: none"> • Composition style notebook • Scientific calculator 	<ul style="list-style-type: none"> • Pen/Pencil • Loose-leaf paper
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Topic	Section	Approximate Weeks
Sect 1.1	What is Physics?	1
Sect 2.1 Sect 2.2 Sect 2.3	Displacement & Velocity Acceleration Falling Objects	2
Sect 3.1 Sect.3.2	Introduction to Vectors Vector Operations	1
Sect 3.3 Sect 3.4	Projectile Motion Relative Motion	1
Sect 4.1 Sect 4.2 Sect 4.3 Sect 4.4	Changes in Motion Newton's First Law Newton's 2nd & 3rd Law Everyday Forces	2
Sect 5.1 Sect 5.2 Sect 5.3 Sect 5.4	Work Energy Conservation of Energy Power	2
Sect 6.1 Sect 6.2 Sect 6.3 Appendix J	Momentum and Impulse Conservation of Momentum Collisions Angular Momentum	3
Sect 7.1 Sect 7.2 Sect 7.3 Appendix J	Circular Motion Universal Gravitation Motion in Space Relativity and Time Dilation	2
Sect 7.4	Torque and Simple Machines	1
Sect 9.1 Sect 9.2 Sect 9.3 Sect 10.2 Sect 10.3	Temperature Defining Heat Changes in Temp & Phase 1 st Law of Thermodynamics 2 nd Law of Thermodynamics	2
Sect 11.1 & 2	Simple Harmonic Motion	1
Sect 11.3 Sect 11.4 Sect 12.1 Sect 12.2 Sect 12.3	Properties of Waves Wave Interactions Sound Waves Sound Intensity and Waves Harmonics	2
Sect 13.1 Sect 13.2 Sect 13.3	Characteristics of Light Flat Mirrors Curved Mirrors	1
Sect 14.1 Sect 14.2	Refraction Thin Lenses	2

Sect 16.1 Sect 16.2 Sect 16.3	Electric Charge Electric Force The Electric Field	2
Sect 17.1 Sect 17.2 Sect 17.3 Sect 17.4	Electrical Potential Capacitance Current and Resistance Electric Power	2
Sect 18.1 Sect 18.2	Circuits Resistors in Series and Parallel	1
Sect 19.1 Sect 19.2	Magnets and Magnetic Fields Magnetism from Electricity	1
Sect 20.1 Sect 20.2	Electricity from Magnetism Generators and Motors	1
Sect 21.1 Sect 21.2 Sect 21.3	Quantization of Energy Models of the Atom Quantum Mechanics	2
Sect 22.1 Sect 22.2 Sect 22.3	The Nucleus Nuclear Decay Nuclear Reactions	2

- All rules set forth in the student code of conduct will be strictly followed.
- All students will be respectful of each other and no forms of bullying or sexual harassment will be tolerated.
- Be prepared with required materials at the start of class. Remain seated during lectures and class presentations. Students wishing to go to the bathroom may do so by signing out and ensuring that they have their student identification with them.
- All classwork, lecture notes, and lab data are to be completed in the composition notebook. Homework and other specified assignments will be turned in on loose-leaf paper.
- All work is due on the assigned date and no late work will be accepted.
- Any work not turned in at the start of class will be marked as a zero in the grade book. Absent students will have two days for every day that they are absent to complete required work.
- Pompano Beach High School prides itself on preparing students for the rigors of college. It is therefore imperative that students do their own work so that they learn content accurately. The faculty expects academic integrity; therefore, students must abide by the PBHS Honor Code when they complete assignments, tests, quizzes, projects, and all other work, both in class and out.
- The first occurrence of cheating will result in the student receiving a zero for the assignment. Subsequent occurrences will result in an administrative referral.
- In order for everyone to be heard, raise your hand to ask questions and answer teacher directed questions.

Approximate Grade Distribution:

- Homework and Class Assignments: 20%
- Tests, Quizzes, Lab Reports: 80%

Mr. Marchand, Mr. Putnam & Ms. Zambrano