

Textbook

Exploring Creation with Physics 2nd Edition By Dr. Jay Wile (ISBN 978-1-932012-42-2), recommended Solutions and Tests for Exploring Creation with Physics 2nd Edition (ISBN 978-1-932012-43-9)

Materials Needed

Notebook paper (looseleaf or in a notebook), pen or pencil, scientific or graphing calculator, compatible lab kit, safety goggles, permanently bound lab notebook with duplicates, at least 100 pages (similar to Barbakam product ISBN: 978-09785344-5-5)

Prerequisites

Algebra 2 and Geometry (recommended to have taken or be concurrently taking Pre-Calculus)

Course description

This course is a study of the interactions and properties of the physical universe. Through an in-depth introduction to the laws of nature and the effects thereof, students will gain a deeper understanding of the nature of God as seen through His creation. Students will collect, analyze, and evaluate experimental data. Mathematics will be heavily employed to describe various events and ideas. Topics include Newtonian mechanics, light, sound, electromagnetism, work, momentum, and energy. If time allows, relativity and quantum mechanics will also be introduced.

Grading Scale and Weights

A:	90 to 100	Homework	15%
B:	80 to 89	Tests	50%
C:	70 to 79	Labs	35%
D:	60 to 69		
F:	0 to 59		

Other information

Please make use of the above contact methods for help with homework during the week (including weekends). If you call and there is no answer, please leave a message. Do NOT send texts, please. Whether you send an email or leave a voicemail, please remember that I am teaching all day each weekday, so I might not get to respond immediately.

Class Time

The co-op classes will be as scheduled by CCHSHC. The time will be used to lecture over the module being covered that week, answer any questions from the reading, problems, or tests, and work practice problems. The intent of the lecture is (a) to give an extensive preview/review of the reading assignment for the week, and (b) to demonstrate and explain the mathematics involved by working practice problems.

Homework

Homework will be assigned for each chapter, and will be graded by the instructor. The “On Your Own” problems should be attempted to familiarize the student with the material, however, only the “Review Questions” and “Practice Problems” at the end of each chapter will be assigned. The homework assignments must be turned in to the instructor within one week from the date that they are assigned. Homework will be administered online. Half-credit penalties may be applied to assignments that extend past the online due dates.

Tests

Tests will be administered online, via ClassMarker. The tests will be closed- book and closed-notes unless otherwise specified; the test is to be taken at one sitting, supervised by the parent, and within a 75-minute timeframe. A 10% deduction may be taken for every class period after the due date that a test must be extended. If a student has questions regarding an exam, he/she may try to contact the instructor for help, but should still complete all items as thoroughly as possible. The student should notify the instructor of any misunderstood or unclear items immediately during or after the test (via phone or email). This is the only opportunity to dispute problems. Concessions will not be made for any reason if this testing procedure is not followed.

Labs

The majority of the co-op class time every other week will be used to conduct the laboratory experiments as instructed in the text. You will be expected to bring safety goggles, a lab kit compatible with Apologia Physics a scientific calculator (graphing calculators are not required), and a composition notebook that is permanently bound and includes duplicates, with at least 100 pages (similar to Barbakam product ISBN: 978-09785344-5-5). Proper lab manual format and lab technique will be explained the first day of class.

Physics • 2016-2017

Quarter	Week #	Friday	Physics	Quarter	Week #	Friday	Physics
1	1	8/26/16	Lecture Module 1	3	17	1/13/17	Lecture Module 9
	2	9/2/16	Labs Module 1		18	1/20/17	Labs Module 9
	3	9/9/16	Lecture Module 2		19	1/27/17	Lecture Module 10
	4	9/16/16	Labs Module 2		20	2/3/17	Labs Module 10
	5	9/23/16	Lecture Module 3		21	2/10/17	Lecture Module 11
	6	9/30/16	Labs Module 3		22	2/17/17	Labs Module 11
	7	10/7/16	Lecture Module 4		23	2/24/17	Lecture Module 12
	8	10/14/16	Labs Module 4		Spring Break	3/3/17-3/10/17	
2	9	10/21/16	Lecture Module 5	4	24	3/17/17	Labs Module 12
	10	10/28/16	Labs Module 5		25	3/24/17	Lecture Module 13
	11	11/4/16	Lecture Module 6		26	3/31/17	Labs Module 13
	12	11/11/16	Labs Module 6		27	4/7/17	Lecture Module 14
	13	11/18/16	Lecture Module 7		Good Friday	4/14/17	
	Thanksgiving Break	11/25/16			28	4/21/17	Labs Module 14
	14	12/2/16	Labs Module 7		29	4/28/17	Lecture Module 15
	15	12/9/16	Lecture Module 8		30	5/5/17	Labs Module 15
	16	12/16/16	Labs Module 8		31	5/12/17	Lecture Module 16
Christmas Break	12/23/16-1/6/17		32	5/19/17	Labs Module 16		

**Please be advised that this is a tentative schedule. Due dates on Weebly should be considered the final authority in regards to pacing. Some chapters or lessons may be omitted as necessary if the class gets behind schedule.*