



HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



Semester 1 ø11-12 Department: Science Course: AP Physics B Instructor(s): McCarthy
 This course is aligned to: **College Readiness Standards and/or College Board Standards** Other:

*The Homewood-Flossmoor High School Course Scope & Sequence provides parents and students with a semester-long overview of each class that we offer. **An instructor may alter a course’s scope & sequence as needed.** Students are responsible for keeping track of due dates and other pertinent course information in their H-F Student Planners. Parents, please contact your child’s teacher by telephone or e-mail to clarify any questions you may have about the scope & sequence of a particular course.*

WEEK	COLLEGE READINESS AND/OR COLLEGE BOARD CONTENT STANDARDS	INSTRUCTIONAL CONTENT	ACTIVITIES, READINGS, LABS, AND/OR ASSIGNMENTS	MAJOR ASSESSMENTS	OTHER
WEEK #1 8/16 ó 8/20 No school: 8/17 & 8/19	S1a3 S1b1	Introduction Class rules, academic expectations Mathematics review	WS1	Mathematics review quiz	
WEEK #2 8/22 ó 8/26	S1b1 S1d5 S1b4 S1c1 S1c3 S1d3	Graphing Linearization Data collection Lab errors, limitations	WS2	Quiz 1	
WEEK #3 8/29 ó 9/2 PLC day: 9/2	S1b1 S1d5 S1b4 All S2 S1c1 All S3 S1c3 S1d3	Unit 1 Motion with constant acceleration (1 dimension) Motion graphs	WS3 Acceleration due to gravity	Quiz 2	Constant speed lab Accelerated motion lab
WEEK #4 9/5 ó 9/9 No school: 9/5	S1e1 S1e2 All S2 All S3	Varying acceleration Calculus ó derivative and integral	WS4	Exam	Varying acceleration lab



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Pep assembly: 9/10					
WEEK #5 9/12 ó 9/16	All S1b S1d3 S1e3	Unit 2 Motion in two dimensions	WS1		
WEEK #6 9/19 ó 9/23 PLC day: 9/23	All S2 All S3	Projectile motion	WS2 Projectile motion lab	Quiz 1	Lab report
WEEK #7 9/26 ó 9/30	S1b2 S1e2	Projectile motion	WS3	Quiz 2	Exam
WEEK #8 10/3 ó 10/7 PLC day: 10/7	S1b2 All S2 All S3	Unit 3 Dynamics	WS1	F = ma Lab (Modified Atwoods Machine)	F = ma Lab
WEEK #9 10/10 ó 10/14 No school: 10/10 All School Testing: 10/12	S1b2 S1c3 S1d1	Unit 3 Dynamics	WS2	Quiz 1	
WEEK #10 10/17 ó	All S2 All S3	Dynamics	WS3		Friction lab



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10/21 End of 1 st Quarter: 10/21					
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WEEK #11 10/24 ó 10/28 PLC day: 10/28	All S1	Dynamics	WS4		Exam
WEEK #12 10/31 ó 11/4 Parent/teacher Conferences: 11/3 No school: 11/4	S1b1 S1b2	Unit 4 Work, Power, Energy	WS1	Quiz 1	
WEEK #13 11/7 ó 11/11 No school: 11/11	All S2 All S3	Work, Power, Energy	WS2		Conservation of Energy lab
WEEK #14 11/14 ó 11/18 PLC day: 11/18	All S1	Work, Power, Energy	WS3	Exam	
WEEK #15 11/21 ó 11/25 No school: 11/24 & 11/25	S1b1 S1b2 All S2 All S3	Unit 5 Momentum and Impulse	WS1 WS2	Quiz 1	Elastic Collision Lab Inelastic Collision Lab
WEEK #16 11/28 ó 12/2	All S1	Momentum and Impulse	WS3	Exam	



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WEEK #17 12/5 ó 12/9 PLC day: 12/9	S1b1 S1b2 S1d1 S1d6 All S2 All S3	Rotation	WS1 WS2	Quiz 1	Turntable lab
WEEK #18 12/12 ó 12/16	All S1	Rotation, Gravitation	WS3	Exam	
WEEK #19 1/4 ó 1/6	All S2 All S3	Periodic and Simple Harmonic Motion	WS1, WS2		Pendulum Lab, Spring- Mass Lab
WEEK #20 1/9 ó 1/13 Finals: 1/9 ó 1/11 Marking Day 1/12					



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Semester 2 ø11-12 Department: Course: Instructor(s):
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WEEK #1 1/16 ø 1/20 No school: 1/16	S1b2 All S2 All S3	2 nd semester introduction Electricity and Magnetism Unit 1 ø Static Electricity Charge, conductors, insulators	Problem Set 1	Static Electricity lab report	Static Electricity lab
WEEK #2 1/23 ø 1/27 PLC day: 1/27	S1b2 S1b3 S1e2 S1e3 All S2 All S3	Unit 1 ø static electricy forces of attraction, repulsion	Problms Set 2	Quiz 1 Coulombø law lab report	Coulombø law lab
WEEK #3 1/30 ø 2/3	All S2 All S3	Unit 1 ø Static Electricity Electric Fields	Problems set 3	Electric field mapping lab report	Electric field mapping lab
WEEK #4	S1d6	Unit 1 ø static electricity	Problem set 4	Quiz 2	



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2/6 ó 2/10 PLC day: 2/10	S1b2 S1b3 S1e2 S1f1	Electrical potential energy potential			
WEEK #5 2/13 ó 2/17	All S1	Unit 1 ó static electricity Gauss's law, flux	Problem set 5	E & M Exam 1	
WEEK #6 2/20 ó 2/24 No school: 2/20 PLC day: 2/24	S1b2 S1b3 All S2 All S3	Unit 2 ó current electricity	Problem set 1	Voltage lab report	Potential difference lab
WEEK #7 2/27 ó 3/2	S1b2 S1b3 All S2 All S3	Unit 2 ó current electricity	Problem set 2	Quiz 1	Capacitor lab
WEEK #8 3/5 ó 3/19 No School: 3/5 & 3/6	S1b2 S1b3 All S2 All S3	Unit 2 ó current electricity	Problem set 3 Problems set 4	Circuits lab report	Series and parallel circuits lab
WEEK #9 3/12 ó 3/16 PLC day: 3/16	All S1	Unit 2 ó current electricity	Problem set 5	E & M Exam 2	



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WEEK #10 3/19 to 3/23 End of 1 st Quarter: 3/23	S1b2 S1b3 All S2 All S3	Unit 3 of Magnetism Sources of B-fields	Problem set 1	B-field mapping lab report	Magnetic field mapping lab
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WEEK #11 4/2 ó 4/6 No School 4/6		Sources of B-fields	Problems set 2 Problem set 3	Magnetic fields lab reports	B-field of a coil B-field of a wire
WEEK #12 4/9 ó 4/13 PLC day: 4/13	All S1	Magnetic effects, induction	Problems set 4	E & M Exam 3	
WEEK #13 4/16- 4/20	All S1 All S2 All S3	Mechanics and E & M review	Mechanics and E & M free response problems ó review		
WEEK #14 4/23 ó 4/27 PSAE: 4/27 & 4/28	All S1 All S2 All S3	Mechanics and E & M review	Mechanics and E & M free response problems ó review		
WEEK #15 4/30 ó 5/4 PLC day:	All S1 All S2 All S3			AP Physics Exams Mechanics Electricity and Magnetism	



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5/4					
WEEK #16 5/7 ó 5/11		Special topics in physics	Worksheet 1		
WEEK #17 5/14 ó 5/18 PLC day: 5/18		Special topics in physics	Worksheet 2	Special topics quiz	
WEEK #18 5/21 ó 5/25 Seniorsø last day: 5/24					
WEEK #19 5/28 ó 6/1 No school: 5/28 Final Exams: 5/29 ó 5/31					



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Marking Day: 6/1					
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