



HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE

Semester 1 '11 – '12 Department: Special Education Course: AC Physics Instructor(s): Bergren
 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 – 8/20 No school: 8/16 & 8/17	S.I.a.3	Science and Math Diagnostics and Review	-Algebra Review -Algebra/Trig Review WS	-FCI -Algebra/Trig Assess.	Syllabus Safety
WEEK #2 8/23 – 8/27	S.I.d.4 S.I.d.5 S.I.c.3 S.II.d.2 S.II.f.1 S.II.c.3	Introduction to Inquiry and Physics Data Collection	-Pendulum Lab -Measurement Lab -Measurement Reading	-Pendulum Practicum -Algebra Reassessment	
WEEK #3 8/30 – 9/3 PLC day: 9/3	S.I.a.3 S.II.c.1	Distance and Displacement	-Google Earth Lab -Hallway Vector Lab -Trig Practice	-Distance/ Displacement Quiz -Hallway Vector Practicum	
WEEK #4 9/6 – 9/10	S.I.c.3 S.II.d.2	Constant Velocity	-Battery Cart Lab -Battery Cart Test	-Velocity Quiz 1	



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No school: 9/6 Pep assembly: 9/10	S.II.f.1 S.III.f.1		-Velocity Reading		
WEEK #5 9/13 – 9/17	S.I.e.3 S.II.c.1 S.III.e.1	Constant Velocity Cont.	-Two Carts Crash Lab -Velocity Problem Set	-Velocity Test -Velocity Practicum	Distribute Car E.C.
WEEK #6 9/20 – 9/24 PLC day: 9/24	S.I.e.3 S.II.d.2	Motion Maps Linearization	-Motion Map Reading -LoggerPro Introduction -Linearization Reading -Linearization Worksheet	-Linearization Quiz	
WEEK #7 9/27 – 10/1	S.I.c.3 S.III.e.1	Graphical Analysis of Motion	-Motion Map WS 2 -Linearization Practice 2	-Motion Map Quiz	
WEEK #8 10/4 – 10/8 PLC day: 10/8	S.I.e.2 S.II.d.2 S.II.f.1 S.III.e.1	Non Constant Velocity	-Acceleration Reading -Ball Drop Lab -Gravity WS	-Gravity Quiz	
WEEK #9 10/11 – 10/15 No school: 10/11 All School Testing: 10/13	S.I.c.3 S.I.e.2 S.II.c.1	Acceleration	-Non Constant V WS 1 -Non Constant V WS 2 -Bowling Ball Ramp Lab -a vs t graphs	-Velocity Quiz -Ball Drop Practicum	



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WEEK #10 10/18 – 10/22 End of 1 st Quarter: 10/22	S.I.e.2	Visual Representations of Acceleration	-Moving Man PHeT Lab -Graphing Acceleration -Area Under a vs t WS	-Midterm Assessment -Ramp Practicum	Mousetrap E.C. Rally
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WEEK #11 10/25 –10/29 PLC day: 10/29	S.II.d.2 S.III.a.2	Vectors	-Trig Review WS 3 -Vectors v. Scalars WS -Hallway Vectors -Vector WS -Vector PHeT Lab	-Vector Quiz	
WEEK #12 11/1 – 11/5 Parent/teacher Conferences: 11/4 No school: 11/5	S.I.c.3 S.II.d.2 S.III.e.1 S.III.e.3	Force Introduction	-Dual Force Sensor Lab -Force of Gravity Lab	-Force Quiz	
WEEK #13 11/8 –11/12 No school: 11/11	S.I.e.3 S.II.f.1	Forces	-Graphing m vs a -Force WS 1 -	-Force Practicum	Bridge E.C.
WEEK #14 11/15 –11/19 PLC day: 11/19	S.I.c.3 S.II.d.2	Motion in 2D	-Canon PHeT Lab -Graphical Analysis of 2D	-Force Test -PHeT Cannon Lab Post Lab Assesement	
WEEK #15 11/22 – 11/26 No school: 11/25 &11/26	S.I.e.2 S.I.c.3 S.II.c.1 S.III.e.2	Projectiles	-Video and Graphical Analysis of an Object in the Air -Projectiles Problem Set	-Graphing Projectiles Lab	
WEEK #16 11/29 – 12/3	S.I.e.3 S.II.f.1	Projectiles Continued	-Monkey Gun Activity -Projectile Practicum	-Projectile Test -Projectile	



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				Practicum	
WEEK #17 12/6 – 12/10 PLC day: 12/10	S.I.c.3 S.II.f.1 S.III.b.1	Energy Introduction	-PHeT Skatepark Lab -Energy Reading -Energy Worksheet -Energy Graphs	-Energy Lab Practicum	
WEEK #18 12/13 – 12/17	S.I.c.3 S.I.e.3 S.II.c.1	Energy/Momentum	-Spring Lab -Hooke's Law WS -Energy Graphs Worksheet	-Energy Quiz One	
WEEK #19 1/3 – 1/7	S.II.d.2 S.III.e.2	Momentum/ Exam Review	-Momentum Crash Lab -Final Exam Review	-Energy Quiz 2 -Momentum Lab	
WEEK #20 1/10 – 1/14 Finals: 1/11 – 1/13 Marking Day 1/14			-Break Bridges		