



## HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



Semester 1 Department: Science Course: CP Chemistry

Instructor(s): Anderson, Krueger, Matys, Sippel, and Stolzenbach

*The Homewood-Flossmoor High School Course Scope and Sequence provides parents and students with a semester-long overview of each class that we offer. **An instructor may alter a course's scope and 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 weekly plans of a particular course.*

WEEK	INSTRUCTIONAL CONTENT	ACTIVITIES, READINGS, LABS, AND/OR ASSIGNMENTS	MAJOR ASSESSMENTS	OTHER
WEEK #1 8/17 – 8/21 No school: 8/17 & 8/18	Policies, Procedures, Syllabus, Safety Contract	Slime Lab	Signed safety contract Review lab equipment	
WEEK #2 8/24 – 8/28	Lab Equipment, Scientific Method, start graphing	Lab Equipment Scavenger Hunt, Scientific Method	Storytelling graphing	
WEEK #3 8/31 – 9/4	Graphing & scientific notation	Graphing	Graphing	
WEEK #4 9/7 – 9/11 No school: 9/7	Scientific Notation, SI units	Measurement Lab	Quiz- 1 <sup>st</sup> 4 weeks of content	



## HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



WEEK #5 9/14 – 9/18	Sig Figs	Density Block Lab	Sig Figs	
WEEK #6 9/21 – 9/25 Late Start: 9/22	Dimensional Analysis Start learning element names	Density Block Lab Mad Scientist Activity	Unit 1 Test	
WEEK #7 9/28 – 10/2 No school: 9/28	Chemical & Physical Properties	Chem-In-A-Bag Homo/Hetero/Pure/Mixture Walk-around	Matter Quiz	
WEEK #8 10/5 – 10/9	Element Notation	Element Inquiry Lab	Element Quiz	
WEEK #9 10/12 – 10/16 No school: 10/12 All School Testing: 10/14	Trends of the Periodic Table	Periodic Table Project		
WEEK #10 10/21 – 10/23 End of 1 <sup>st</sup> Quarter: 10/23	Periodic Table Ions & Isotopes	Color periodic table Candium Lab	Element Quiz B Unit 2 Test	



## HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



WEEK #11 10/26 –10/30	Ions & Compounds Notes- Naming Binary Ionic Compounds	Computer lab Ion Activity		
WEEK #12 11/2 – 11/6 Parent/teacher Conferences: 11/5 No school: 11/6	Naming Transition Metals	Computer Lab Ion Activity	Quiz	
WEEK #13 11/9 –11/13 No school: 11/11	Polyatomic & Molecular Notes	Polyatomic Practice		
WEEK #14 11/16 –11/20	Start balancing chemical reactions	Computer Lab Lab- Conservation of mass	Nomenclature Test	
WEEK #15 11/23 – 11/27 No school: 11/26 &11/27	Balancing Equations	Walk-Around Balancing I Want to be Balanced		
WEEK #16 11/30 – 12/4	Notes- Chemical Reactions	Computer lab Chemical Reaction lab		



## HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



WEEK #17 12/7 – 12/11 Late Start: 12/9	Molar Mass & % Composition	Movie- The mole	Unit 4 Test	
WEEK #18 12/14 –12/18	The Mole, Empirical Molecular Formulas	Mole Island Map	Quiz	
WEEK #19 1/4 – 1/8	Stoichiometry	Lab- Smores		
WEEK #20 1/11 – 1/15 Finals: 1/12 – 1/14 Marking Day 1/15	Review for final	Review for final	Final Exams	

### Semester 2

WEEK	INSTRUCTIONAL CONTENT	ACTIVITIES, READINGS, LABS, AND/OR ASSIGNMENTS	MAJOR ASSESSMENTS	OTHER
WEEK #1 1/20 – 1/23 No school: 1/20	-Worksheet “Solutions” -Video Molecules in motion -Lecture pages 289-293	-HW questions 1-4 page 293 -HW vocabulary 317	-Test Chapter 9	



## HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



WEEK #2 1/26 – 1/30	-Collect vocab -Lecture 293-300 -worksheet specific heat	-HW problems 22,25,28 page 319 -Lab specific heat -Lab Energy in a snack		
WEEK #3 2/2 – 2/6	-Video nuclear energy	-Lab Ice cream	-Test Chapter 10	
WEEK #4 2/9 - 2/13	-Lecture -Video Color -Video Wave/particle	-HW problems 17-23 page 355 -HW vocabulary -354		
WEEK #5 2/16 – 2/20 No School: 2/16	-Lecture 304-312 -Video Wave/particle	-HW read pages 333-339 -HW problems 37-38 page 356 -Lab spectra -HW Read 339-345 -HW prblems 39-44 page 356		
WEEK #6 2/23 – 2/27	-Review for test -Video Molecules Architecture -Video worksheet	-HW read 346-353 -Lab Flame	-Test Chapter 11	
WEEK #7 3/2 – 3/6 No School:	-Lecture 302-311 -Worksheet individual bond types	-HW read 359-365 -HW questions 1-4, page 365		



## HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



3/3 & 3/6				
WEEK #8 3/9 - 3/13	-Graphing worksheet -Video "bond" -Lecture "VSEPR/Shapes"	-HW assign problems 47-52 pages 396-397		
WEEK #9 3/16 - 3/20	-Video E arranging P Bonding	-lab "models"	-Test Chapter 12	
WEEK #10 3/23 - 3/27 End of 3 <sup>rd</sup> Quarter	-Video precious envelope -Video worksheet -Video "gases combine"	-HW read pages 399-402 -HW problems 1-6, page 435 -HW vocabulary 435		
WEEK #11 4/6 - 4/10 No School: 4/10	-Art analysis	-Lab Gas demos		
WEEK #12 4/13 - 4/17	-Video H <sub>2</sub> O -video worksheet -Lecture 417-424	-Lab H <sub>2</sub> .HW read pages 441-445 -Vocabulary 462 -Assign common H <sub>2</sub> O problems	-Test Chapter 13	
WEEK #13 4/20 - 4/24 PSAE/ECRA testing 4/23	-Lecture 424-437 -Lecture 445-460	-HW read pages 446-459 -HW questions 1,3,5,10,12,24,32,pages 463- 464		



## HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



& 4/24		-Worksheet "solutions (molarity)		
WEEK #14 4/17 – 5/1		-Lab Heat of fusions	-Test Chapter 14 & 15	
WEEK #15 5/4 – 5/8	-Video Protein -Lecture Neutron Naming	-HW vocabulary 531 -HW read pages 503-511 -HW questions 1-6, pages 532		
WEEK #16 5/11 – 5/15	-worksheet A/B investment	-Lab A/B -Lab titration		
WEEK #17 5/18 – 5/22	-Video "Carbon"	-HW vocabulary 676	-Test Chapter 16	
WEEK #18 5/25 – 5/29 No School: 5/25 Seniors' Last Day: 5/29	-Video Polymer -Video worksheet -Work on review packet	-lab Silly Putty		
WEEK #19 6/1 – 6/5 Final Exams			Final Exams	



## HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



6/3 – 6/4				
-----------	--	--	--	--