



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 st 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 st 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 | | |



HOMWOOD-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 rd 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 ₂ O -video worksheet -Lecture 417-424 | -Lab H ₂ .HW read pages 441-445 -Vocabulary 462 -Assign common H ₂ 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 | | | | |
|-----------|--|--|--|--|