

Aspire Scholar Academy - Chemistry 2023-2024

Date	Topic	Activities	Before Class
Sept 7	Chapter 1 - What is Chemistry	Density Labs	Read Chapter 1 (pp 1-30) Key terms (pg 31) Review Questions (pp 31-33)
Sept 14	Chapter 2 - Periodic Table	Physical vs Chemical Change Labs Escape Rooms	Lab Sheet 1 Read Chapter 2 Key terms Review Questions
Sept 21	Chapter 3 - Atoms	Cookie Periodic Table	Lab Sheet 2 Read Chapter 3 Optional: Here are some crash course videos on what we covered this week if you want more info on: The Nucleus an/d or The Periodic Table
Sept 28	Chapter 4 - Atomic Nucleus	Element Group Presentations	Lab Sheet 3
Oct 5	Chapter 5	Electron Configuration Build	Read Chapter 4 & 5 Optional: Hank Greens Three Videos on Atomic Energy: History of Atomic Chemistry , Nuclear Chemistry , Nuclear Chemistry #2
Oct 12	Chemistry of Sour Dough Bread		
Oct 19	Chapter 6	Lewis Structure Ionic Bonds Covalent Bonds Polar Bonds	Electron Configuration Quiz (for both quizzes: for #2 do the electron configuration, skip #4) Read Chapter 6 Key terms Review Questions
Oct 26	Chapter 6 Cont.	VSPER Bond Shapes	Lab Week 5 Watch: ▶ Atomic Hook-Ups - Types of Chemical Bo... ▶ Polar & Non-Polar Molecules: Crash Cour... ▶ Bonding Models and Lewis Structures: Cr...
Nov 2	Chapter 7	Solubility and Soap	▶ Stoichiometry - Chemistry for Massive Cre... ▶ Water & Solutions - for Dirty Laundry: Cra... Read Chapter 7
Nov 9	Chapter 8	Water	Pg 217#1-2 Pg 234 #1-4 Read Chapter 8 ▶ Water & Solutions - for Dirty Laundry: Cra...
Nov 16	Chapter 9	Balancing Equations	Read Chapter 9 ▶ Stoichiometry - Chemistry for Massive Cre...
Winterim			
Jan 18	Chapter 9	Balancing Equations/ stoichiometry	Balancing Equations Lab Week 9
Jan 25	Chapter 9	Stoichiometry Ideal Gas Law	Problems 1-7 page 304-305

Feb 1		Ideal Gas Law	Ideal Gas Law Video Ideal Gas Problems Video
Feb 8	Chapter 10	Ideal Gas Law and Acids and Bases	Pressure Temperature Problems Volume/Temperature Problems Pressure/Volume Problems Read Chapter 10 (310-333) and/or watch Acids and Bases Crash Course
Feb 15	Chapter 11	Oxidation and Reduction	Finish Ideal Gas Law Problems Read Chapter 11 and watch  Redox Reactions: Crash Course Chemistr...
Feb 22	Chapter 11	More Oxidation and Reduction	Work on Understanding Redox Equations more. Here are some optional links to help: Oxidation–reduction (redox) reactions (article) Khan Academy  Introduction to Oxidation Reduction (Redo... https://chemistrytalk.org/redox-reactions/
Feb 29	Chapter 12	Organic Compounds	Read Chapter 12 Key Terms Review Questions
Mar 7	Chapter 13	Chemistry of Life	Finish Soap Lab Read Chapter 13
Mar 14	Chapter 14	Chemistry of Drugs	Read Chapter 14
Mar 21	Chapter 15	Chemistry of Food	Read Chapter 15
Mar 28	Chapter 16	Fresh Water Resources	Read Chapter 16 Paragraph about the connections between chemistry and soil or Watch  The Secret Language Of Plants - National...
Spring Break			
Apr 11	Nomenclature	Nomenclature	 Nomenclature: Crash Course Chemistry #44
Apr 18	Chapter 18	Material Resources	Read Chapter 18
Apr 25	Project Day		