

AP Chemistry

Course	Dates	Schedule	Instructor
AP Chemistry	9/6/2026 - 5/2/2027	Sunday 7:00 PM – 8:30 PM	Mr. Black
Practice Test	12/6/2026 2/14/2027 4/11/2027 4/25/2027	Sunday 5:15 PM – 8:30 PM	

Course Description

Lesson	Date	Topics
1	September 6, 2026	Tentative Topics Covered in AP Chemistry Curriculum: Unit 0 (Significant Figures, Metric System, Conversion Factors, Dimensional Analysis) Unit 1.1 (Moles and Molar Mass) Unit 1.2 (Mass Spectroscopy of Element)
2	September 13, 2026	Unit 1.2 (Mass Spectroscopy of Elements) Unit 1.3 (Elemental Composition of Pure Substances) Unit 1.4 (Composition of Mixtures)
3	September 20, 2026	Unit 1.5 (Atomic Structure and Electron Configurations) Unit 1.6 (Photoelectron Spectroscopy) Unit 1.7 (Periodic Trends)
4	September 27, 2026	Unit 1.7 (Periodic Trends) Unit 1.8 (Valence Electrons and Ionic Compounds)
5	October 4, 2026	Unit 2.1 (Types of Chemical Bonds) Unit 2.2 (Intramolecular Forces and Potential Energy) Unit 2.3 (Structure of Ionic Solids) Unit 2.4 (Structure of Metals and Alloys) Unit 2.5 (Lewis Structures)
6	October 11, 2026	Unit 2.5 (Lewis Structures) Unit 2.6 (Resonance and Formal Charge) Unit 2.7 (VSEPR and Bond Hybridization)
7	October 18, 2026	Unit 2.7 (VSEPR and Bond Hybridization) Unit 3.1 (Intermolecular and Interparticle Forces) Unit 3.2 (Properties of Solids)
8	October 25, 2026	Unit 3.3 (Solids, Liquids, and Gases) Unit 3.4 (Ideal Gas Law) Unit 3.5 (Kinetic Molecular Theory)
9	November 1, 2026	Unit 3.6 (Deviation from Ideal Gas Law) Unit 3.7 (Solutions and Mixtures) Unit 3.8 (Representations of Solutions)

Lesson	Date	Topics
10	November 8, 2026	Unit 3.9 (Separation of Solutions and Mixtures) Unit 3.10 (Solubility) Unit 3.11 (Spectroscopy & the Electromagnetic Spectrum) Unit 3.12 (Properties of Photons)
11	November 15, 2026	Unit 3.13 (Beer-Lambert Law) Unit 4.1 (Introduction for Reactions) Unit 4.4 (Physical and Chemical Changes) Unit 4.2 (Net Ionic Equations) Unit 4.3 (Representations of Reactions) Unit 4.5 (Stoichiometry)
12	November 22, 2026	Unit 4.5 (Stoichiometry)
13	November 29, 2026	Unit 4.6 (Introduction to Titrations) Unit 4.7 (Types of Chemical Reactions) Unit 4.8 (Introduction to Acid-Base Reactions)
14	December 6, 2026	Practice Exam – Units 1 through 4.8
15	December 13, 2026	Unit 4.9 (Oxidation-Reduction (Redox) Reactions) Unit 5.1 (Reaction Rates) Unit 5.5 (Collision Model) Unit 5.11 (Catalysis) Unit 5.6 (Reaction Energy Profile)
16	December 20, 2026	Unit 5.2 (Introduction to Rate Laws) Unit 5.3 (Concentration Changes Over Time)
17	January 3, 2026	Unit 5.4 (Elementary Reactions) Unit 5.7 (Introduction to Reaction Mechanisms) Unit 5.8 (Reaction Mechanisms and Rate Laws) Unit 5.9 (Pre-Equilibrium Approximation)
18	January 10, 2026	Unit 5.10 (Multistep Reaction Energy Profile) Unit 6.1 (Endothermic and Exothermic Processes) Unit 6.2 (Energy Diagrams) Unit 6.3 (Heat Transfer and Thermal Equilibrium) Unit 6.4 (Heat Capacity and Calorimetry)
19	January 17, 2026	Unit 6.4 (Heat Capacity and Calorimetry) Unit 6.5 (Energy of Phase Changes) Unit 6.6 (Introduction to Enthalpy of Reactions) Unit 6.7 (Bond Enthalpies) Unit 6.8 (Enthalpy of Formation)
20	January 24, 2026	Unit 6.9 (Hess's Law) Unit 7.1 (Introduction to Equilibrium) Unit 7.2 (Direction of Reversible Reactions) Unit 7.3 (Reaction Quotient and Equilibrium Constant) Unit 7.5 (Magnitude of the Equilibrium Constant) Unit 7.6 (Properties of the Equilibrium Constant)
21	January 31, 2026	Unit 7.4 (Calculating the Equilibrium Constant) Unit 7.7 (Calculating Equilibrium Concentrations)

Lesson	Date	Topics
22	February 7, 2026	Unit 7.8 (Representations of Equilibrium) Unit 7.9 (Introduction to Le Chatelier's Principle) Unit 7.10 (Reaction Quotient and Le Chatelier's Principle) Unit 7.11 (Introduction to Solubility Equilibria)
23	February 14, 2026	Practice Exam – Units x through 7.11
24	February 21, 2026	Unit 7.12 (Common-Ion Effect) Unit 8.0 (Definitions of Acids and Bases) Unit 8.1 (Introduction to Acids and Bases) Unit 8.2 (pH and pOH of Strong Acids)
25	February 28, 2026	Unit 8.3 (Weak Acid and Base Equilibrium) Unit 8.4 (Acid-Base Reactions and Buffers)
26	March 7, 2026	Unit 8.4 (Acid-Base Reactions and Buffers) Unit 8.5 (Acid-Base Titrations) Unit 8.6 (Molecular Structures of Acids and Bases)
27	March 14, 2026	Unit 8.7 (pH and pKa) Unit 8.8 (Properties of Buffers) Unit 8.9 (Henderson-Hasselbalch Equation) Unit 8.10 (Buffer Capacity)
28	March 21, 2026	Unit 8.11 (pH and Solubility) Unit 9.1 (Introduction to Entropy) Unit 9.2 (Absolute Entropy and Entropy Changes) Unit 9.3 (Gibbs Free Energy & Thermodynamic Favorability) Unit 9.4 (Thermodynamic and Kinetic Control)
29	March 28, 2026	Unit 9.5 (Free Energy and Equilibrium) Unit 9.6 (Free Energy of Dissolution) Unit 9.7 (Coupled Reactions) Unit 9.8 (Galvanic (Voltaic) and Electrolytic Cells)
30	April 4, 2026	Unit 9.8 (Galvanic (Voltaic) and Electrolytic Cells) Unit 9.9 (Cell Potential and Free Energy) Unit 9.10 (Cell Potential Under Nonstandard Conditions) Unit 9.11 (Electrolysis and Faraday's Law)
31	April 11, 2026	Practice Exam – Units 1 through 5
32	April 18, 2026	Focused Review of Unit 1 (Atomic Structure and Properties), Unit 2 (Compound Structure and Properties), Unit 3 (Properties of Substances and Mixtures), Unit 4 (Chemical Reactions), and Unit 5 (Kinetics)
33	April 25, 2026	Practice Exam – Units 6 through 9
34	May 2, 2026	Focused Review of Units 6 (Thermochemistry), Unit 7 (Equilibrium), Unit 8 (Acids and Bases), and Unit 9 (Thermodynamics and Electrochemistry)
	May 6, 2027	Day for the 2027 AP Chemistry: Thursday

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Teacher Profile

Mr. Black

Chemistry



Mr. Black is a certified teacher with 20 years' experience on teaching AP Chemistry, Pre-AP Chemistry, Honor Chemistry and General Chemistry. He helped students bridge the gap between what notes to take in high school and having to find the information and research on their own in college. He designed State Science Exams. He knows how to handle a small group class with students at different levels in his tenure of teaching Chemistry, he has helped hundreds of students achieved perfect scores in AP and improving school grades from C, D, F to A-, A.