

AP Chemistry: APSI - Jordan Rose (Summer 2024)

Day 1	Essential Topics
AM1	<p>UNDERSTANDING THE COURSE Welcome and Introductions Norms and Agenda for the Day and Week Building a Successful Program</p> <p>The Growth Mind-Set Teaching Resources Equity, Inclusion, and Promoting Diversity Broadening Access to AP Toolkit Making the AP Chemistry Laboratory Inclusive for All Learners</p>
AM2	<p>Understanding the Framework and Scope of the Course Course and Exam Description WalkThrough Course Overview: Units, Big Ideas, Enduring Understandings, and Learning Objectives</p> <p>Unit 1: Atomic Structure and Properties Science Practices 1, 3, & 4 - Representations and Intermolecular Forces Mass Spectrometry Guided Inquiry Lab Manual Investigation 3 (Hard Water) PES Concepts and Simulations</p>
PM1	<p>Unit 2: Molecular and Ionic Compound Structure and Properties Using Particulate Diagrams Coulomb's Law and Free Response Questions Guided Inquiry Lab Manual Investigation 6 (Bottle Set Lab)</p>
PM2	<p>Unit 3: Intermolecular Forces and Properties IMFs and Free Response Questions Scoring IMFs - Student Samples Guided Inquiry Lab Manual Investigation 5 (Chromatography) Thinking Ahead Day 1 - Scaffolding and Spiraling the Science Practices</p>

Day 2	Essential Topics
AM1	<p>PLANNING YOUR COURSE Exploring the Unit Guides Understanding the Score and Sequence Beer's Law Concepts and Instrumentation Guided Inquiry Lab Manual Investigations 1, 2 (Carolina Lab Kit - Spectrophotometric Analysis of Food Dyes)</p> <p>Unit 4: Chemical Reactions Guided Inquiry Lab Manual Investigation 4 (Fruit Juice) Guided Inquiry Lab Manual Investigation 7 (Green Chemistry - Separation of a Mixture) Lab Reports</p>
AM2	<p>Unit 9: Applications of Thermodynamics Electrochemistry and Oxidation-Reduction Voltaic Cells Lab</p>
PM1	<p>Planning Your Course - Standard vs Alternate Pathways Using AP Classroom Data for Planning Instructional Planning and Score Reports</p> <p>TEACHING THE COURSE Reviewing the Instructional Approaches</p>
PM2	<p>Using the Topic Pages WICOR Strategies</p> <p>Thinking Ahead Day 2 - Instructional Strategies for Specific Topics</p>

Day 3	Essential Topics
AM1	<p>Science Practices 2, 5, & 6 - Experimental Design, Calculations, and Argumentation</p> <p>Unit 5: Kinetics Hungry, Hungry, Hippos Activity Mechanisms Guided Inquiry Lab Manual Investigation 10 (Marble Statue) Guided Inquiry Lab Manual Investigation 11 (Crystal Violet)</p>
AM2	<p>Unit 6: Thermodynamics Guided Inquiry Lab Manual Investigation 12 (Hand Warmer Design Challenge) Hess's Law Virtual Activity</p> <p>Lab-based FRQ</p>
PM1	<p>Unit 7: Equilibrium Bingo Chip Q vs K Activity Progressive Precipitation Activity Guided Inquiry Lab Manual Investigation 13 (LeChatelier Rainbow)</p>
PM2	<p>Unit 8: Acid and Base Equilibrium and Buffers Titration Screen Experiment Buffer Problems Guided Inquiry Lab Manual Investigation 14 (pH Curves) Guided Inquiry Lab Manual Investigations 15 & 16 (Buffers)</p> <p>Thinking Ahead Day 3 - Connecting the Exam to the Curriculum</p>

Day 4	Essential Topics
AM1	<p>ASSESSING STUDENT PROGRESS</p> <p>AP Exam Structure Free Response Prompts Activity Task Verbs Chief Reader Reports</p> <p>AP Classroom New Features Data Driven Instruction Class Progress</p>
AM2	<p>Formative vs Summative Assessments Topic Questions and AP Daily Videos Personal Progress Checks AP Question Bank Student Self-Scoring</p>
PM	<p>BECOMING A MEMBER OF THE AP COMMUNITY</p> <p>Scoring Free Response Questions</p> <p>AP Course Audit and Curricular Requirements Course Audit Syllabi Construction</p> <p>Next Steps - Joining the AP Teacher Community and Finding Additional Resources College Board Resources Share Fair Workshops, Institutes, Mentoring AP Reading Final Questions & Key Takeaways</p>