

Pecos High School  
Pre-Ap Chemistry  
1st Six Weeks Syllabus

Student Expectations: Write formulas for Polyatomic Ions Name Polyatomic Ions August 25:
Student Expectations: Units of Measurement Define English and SI base units for time, length, mass, and temperature Explain how adding a prefix changes a unit Demonstrate knowledge of English and SI base units in conversion applications Compare the derived units for volume and density September 2:
Student Expectations: Continuation of Units of Measurement September 8:
Student Expectations: Continuation of Units of Measurement September 15:
Student Expectations: Continuation of Units of Measurement September 22:
Student Expectations: Continuation of Units of Measurement September 29:

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2nd Six Weeks Syllabus

<p>Student Expectations: Matter , Names and Formulas for Ionic Compounds Identify the characteristics of a substance,. Distinguish between physical and chemical properties. Differentiate among the physical states of matter. Write formulas for ionic compounds and oxyanions October 6</p>
<p>Student Expectations: Continuation of Matter and Formulas for Ionic Compounds October 13:</p>
<p>Student Expectations: Continuation of Matter and Formulas for Ionic Compounds October 20:</p>
<p>Student Expectations: Formulas for Covalent Compounds October 27</p>
<p>Student Expectations: Atomic Structure Distinguish between protons, neutrons, electrons in terms of relative charge and mass. Describe the structure of the nuclear atom, including the locations of the protons, neutrons, &amp; electrons. Explain the role of the atomic number in determining the identity of an atom. Define an isotope. Calculate the number of electrons, protons, and neutrons, in an atom given its mass number and atomic number. Draw atoms using knowledge of the periodic table. November 3</p>
<p>Student Expectations: Continuation of previous week November 10</p>

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3<sup>rd</sup> Six Weeks Syllabus

Student Expectations: Naming Binary Compounds Rules for and utilizing Latin prefixes. Writing Formulas for Binary Compounds. November 17
Student Expectations: Naming Binary Compounds Rules for and utilizing Latin prefixes. Writing Formulas for Binary Compounds. November 24:
Student Expectations: Law of Conservation of Mass Rules for Balancing Equations Types of Reactions Binary Acids December 1:
Student Expectations: Continuation of Balancing Equations December 8:
Student Expectations: Continuation of Balancing Equations December 15
Student Expectations: Continuation of Balancing Equations January 5
Student Expectations: Continuation of Balancing Equations January 12

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4<sup>th</sup> Six Weeks Syllabus

Student Expectations: Atomic Theory and History, with a focus on historical figures and their impact on science, Introduction of Laws- including the Law of Multiple Proportions Gay Lussac's Law January 21
Student Expectations: Continuation of previous week January 28
Student Expectations: Continuation of previous week
Student Expectations: Continuation of previous week February 4
Student Expectations: Continuation of previous week February 11
Student Expectations: Continuation of previous week February 18

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5<sup>th</sup> Six Weeks Syllabus

Student Expectations: Quantum Theory Components of the Atom & The Planetary Model of the Atom Electromagnetic Spectrum Wave-Particle Theory Aufbau Principle March 2(Note plans for instruction)
Student Expectations: Laws of Gravity and Motion Heisenberg Uncertainty Principle March 16
Student Expectations: Quantum Numbers Hund's Rule, Shroedinger March 23
Student Expectations: Factors Affecting the Size of the Electron Cloud Electron Dot Diagrams March 30
Student Expectations: Organization of the Elements History of the Periodic Table Trends of the Periodic Table April 6
Student Expectations: Trends of the Periodic Table Metallic and Non-Metallic Ions Chemical Bonds- Covalent and Ionic, Geometry April 13

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6<sup>th</sup> Six Weeks Syllabus

Student Expectations: States of Matter, Crystals & Crystal Lattice, Kinetic Molecular Theory April 20(Note plans for instruction)
Student Expectations: Ideal Gas Laws, Phase Changes April 27
Student Expectations: Gas Laws: Boyle's and Charles' May 4
Student Expectations: Continuation of the Gas Laws & Problems Rates of Diffusion Ideal Gas Laws- Problems May 11
Student Expectations: Finding Percent Percentage Emperical Formulas, Moles to Grams & Grams to Moles Conversions May 18
Student Expectations: Second Semester Exams this week. May 26

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Student Expectations: Second Semester Exams this week. May 26