



Chemistry CA Standards Progress Report

Student _____ EF _____ Semester **1 2** Year _____

Explanation of Standards

1. Beginning: Student has been exposed to Standard.
2. Basic: Student is approaching mastery of Standard.
3. Proficient: Student demonstrates mastery of Standard.
4. Advanced: Student exceeds mastery of Standard.

Leave blank if student has not been exposed to this Standard.

Atomic & Molecular Structure—understand that the periodic table displays the elements in a structured manner that represents information about chemical properties and atomic structure.	
Chemical Bonds—understand that biological, chemical, & physical properties of matter result from the ability of atoms to form bonds from electrostatic forces between electrons & protons & between atoms & molecules.	
Conservation of Matter & Stoichiometry—understand the conservation of atoms in chemical reactions leads to the principle of conservation of matter & the ability to calculate the mass of products & reactants.	
Gases & Properties—understand that the kinetic molecular theory describes the motion of atoms & molecules & explains the properties of gases.	
Acids & Bases—understand that acids, bases, & salts are three classes of compounds that form ions in water solutions	
Solutions—understand that solutions are homogenous mixtures of two or more substances.	
Chemical Thermodynamics—understand that energy is exchanged or transformed in all chemical reactions & changes of matter.	
Reaction Rates—understand that chemical reaction rates depend on factors that influence the frequency of collisions of molecules	
Chemical Equilibrium—understand that chemical equilibrium is a dynamic process @ the molecular level.	
Organic Chemistry & Biochemistry—understand that bonding characteristics of carbon allow the formation of many different organic molecules of varied shapes, sizes & properties & provide the biochemical basis of life.	
Atomic & Molecular Structure—understand that the periodic table displays the elements in a structured manner that represents information about chemical properties and atomic structure.	
Nuclear Processes—Understand that nuclear processes are those in which an atomic nucleus changes including radioactive decay of naturally occurring & human-made isotopes, nuclear fission, & nuclear fusion.	
Investigation & Experimentation—understand and practice the concept that scientific progress is made by asking meaningful questions and conducting careful investigations.	

EF Signature: _____ Date: _____