

Physical Science Course 2 Proficiency Sheet – Chemistry: Chemical Reactions & Properties of Matter 22% of Milestones Assessment		
fsicourses.net Physical Science Course 2: Chemistry – Chemical Reactions & Properties of Matter 22% of Milestones Assessment	Score	Date Passed
2.1 Chemical Bonds		
a. Covalent Bonds LT 1: I can analyze and interpret data to predict properties of covalent compounds. (Proficient)		
b. Ionic Bonds LT 2: I can analyze and interpret data to predict properties of ionic compounds. (Proficient)		
c. Ionic vs. Covalent Bonds Properties LT 3: I can analyze and interpret data to explain the differences between ionic and covalent compounds. (Proficient)		
d. Writing & Predicting Binary Ionic Compounds LT 4: I can develop and use models to predict formulas for stable, binary ionic compounds based on balance of charges.		
e. Binary Chemical Names & Formulas LT 5: I can translate between simple binary chemical names and chemical formulas.		
2.2 The Law of Conservation of Matter		
a. Types of Chemical Reactions LT 6: I can recognize and explain why mass is conserved during a chemical reaction. (Developing)		
b. Balancing Chemical Equations LT 7: I can develop and use a model of a chemical equation to illustrate how the total number of atoms is conserved during a chemical reaction. (Proficient)		
2.3 Phases & Properties of Matter		
a. Phases of Matter & Phase Change Diagrams LT 8: I can ask questions to compare and contrast models depicting the particle arrangement and motion in solids, liquids, gases, and plasmas. (Proficient)		
b. Gas Laws LT 9: I can recognize and explain the relationships between temperature, pressure, and volume of gases in a closed system. (Proficient)		
2.4 Properties of Solutions		
a. Properties of Solutions LT 10: I can develop and use models to explain the properties (solute/solvent, conductivity, and concentration) of solutions. (Proficient)		
b. Factors Affecting Rates of Dissolving LT 11: I can explain how temperature, surface area, and agitation affect the rate solutes dissolve in a specific solvent. (Developing)		
c. Solubility Curves LT 12: I can analyze and interpret data from a solubility curve to determine the effect of temperature on solubility. (Proficient)		
d. Acids & Bases LT 13: I can identify relationships between the structure and properties of acids and bases. (Developing)		