

Use this guide to keep track of your work. This is just a guide, you can work at your own pace.

<u>Unit</u>	<u>Topic</u>	<u>Goal Date</u>
Unit 1	<u>Week 1, Introduction to Chemistry</u> Density Significant Figures Rounding with Significant Figures Calculating with Significant Figures	
	<u>Week 2, Measurements</u> The Metric System Converting Metric Units SI Units Scientific Notation Operations with Scientific Notation	
	<u>Week 3, Properties</u> Physical and Chemical Changes Extensive and Intensive Properties Conductivity Unit 1 Test	
Unit 2	<u>Week 1, The Periodic Table</u> The Elements Atomic Mass and Number Metals Non-Metals Metalloids	
	<u>Week 2, Periods and Groups</u> Periods Groups Lanthanides and Actinides Isotopes	
	<u>Week 3, Trends</u> Atomic Size and Ionization Metallic Character Trends Melting and Boiling Point Trends Unit 2 Test	
Unit 3	<u>Week 1, Atoms & Electrons</u> History of Atomic Structure Atomic Structure Protons, Neutrons, and Electrons Isotopes Orbital Shells and Electron Levels	
Unit 4	<u>Week 1, Metals</u> Metals Properties of Metals Identifying Metals	
	<u>Week 2, Nonmetals</u> Properties of Nonmetals Identifying Nonmetals	

	Metalloids Unit 4 Test	
Unit 5	<u>Week 1, Ionic Bonds</u> Ions Ionic Bonds Unit 5, Week 1 Test	
	<u>Week 2, Covalent Bonds</u> Covalent Bonds Polyatomic Ions and Compounds	
	<u>Week 3, Polar Bonds</u> Electronegativity Polar and Non-Polar Bonds Unit 5 Test	
Unit 6	<u>Week 1, Moles and Molarity</u> Moles, Molarity, and Solutions Moles and Grams Moles and Molarity Mass Percents	
	<u>Week 2, Acids and Bases</u> Acids and Bases Titration Problems Unit 6, Week 2 Test	
	<u>Week 3, Equilibrium</u> Chemical Equations Equilibrium Equilibrium Constant Unit 6 Test	
Unit 7	<u>Week 1, Write Chemical Equations</u> Reactants and Products States of Matter Types of Chemical Equations	
	<u>Week 2, Balance Equations</u> Balance Simple Chemical Equations Balance Advanced Chemical Equations	
	<u>Week 3, Classify Chemical Reactions</u> Chemical Equations Review Define Chemical Reactions Identify Reactions Unit 7 Test	
Unit 8	<u>Week 1, Phases of Matter</u> Defining Phases of Matter Identifying Matter by the Elements	
	<u>Week 2, The Gas Laws</u> Boyle's Law Charles' Law Avogadro's Law Ideal Gas Law	
	<u>Week 3, Solutions and Solubility</u> Identify Solutions Predict Solubility Calculate Solubility Unit 8 Test	
Unit 9	<u>Week 1, Laws of Thermodynamics</u> First Law of Thermodynamics Second Law of Thermodynamics	

	Third Law of Thermodynamics	
	<u>Week 2, Kinetics</u> Reaction Diagrams and Rate Laws Activation Energy Thermochemistry and Food Unit 9 Test	
Unit 10	<u>Week 1, Hydrocarbons</u> Carbon Organic vs Inorganic Compounds Alkanes, Alkenes, and Alkynes Hydrocarbons	
	<u>Week 2, Carbonyls</u> Carbonyls Aldehydes and Ketones	
	<u>Week 3, Alcohols, Ethers, and Thiols</u> Alcohols Ethers Thiols Unit 10 Test	
Unit 11	<u>Week 1, Nuclear Energy</u> Nuclear Energy Vocabulary Nuclear Energy Fusion and Fission	
	<u>Week 2, Nuclear Structure and Equations</u> Balance Nuclear Equations Types of Decay	
	<u>Week 3, Radiation</u> Electromagnetic Spectrum Radioactive Elements Half-life Unit 11 Test	
Unit 12	<u>Week 1, Oxidation-Reduction Reactions</u> Oxidizing and Reducing Agents Oxidation Reduction Reactions Examples of Redox Reactions	
	<u>Week 2, Cells and Electrochemistry</u> Cells Batteries Unit 12 Test	