

Introduction to Chemistry, Physics, and Earth Science Course Map
Prepared by Mrs. Karr

Month	Unit	Topics
<i>August/September</i> <i>January/February</i>	Atomic Structure	<ul style="list-style-type: none"> • Elements • Subatomic particles • Structural models • Isotopes
<i>October</i> <i>March</i>	Periodic Table Chemical Bonding	<ul style="list-style-type: none"> • Physical/Chemical properties • Elements, compounds, and mixtures • Families and periods • Valence electrons and electron affinity • Ionic and covalent bonding • Compounds • Molecules • Writing and naming chemical formulas
<i>November/December</i> <i>April/May</i>	Solutions Chemical Reactions Acids and Bases	<ul style="list-style-type: none"> • Solute and solvent • Concentration calculations • Types of solutions: concentrated, dilute, saturated, supersaturated • Solubility • Reactants and products • Conservation of mass and balancing equations • Types of reactions • Definitions: acid, base, salt • Strength of acid/base • Calculating pH, pOH, hydronium and hydroxide ion concentrations

This is a draft course map. Changes will be made by the instructor when necessary.