

Term 1	Term 2	Term 3	Term 4
<p>Unit 1: <u>Lab Safety, Scientific Method, and Measurement</u></p> <ul style="list-style-type: none"> • Lab Safety • Measurement & Lab Equipment • Scientific Method – Analyzing data, communicating valid conclusions. <p>Unit 2: <u>Structure and Properties of Matter</u></p> <ul style="list-style-type: none"> • Particle Arrangement • Classification • Physical & Chemical Properties and Changes <p>Unit 3: <u>Structure of the Periodic Table</u></p> <ul style="list-style-type: none"> • Atomic Structure • Placement of Elements & Valence Electrons • Properties of Periodic Groups/Families <p>Unit 4: <u>Chemical Bonding and Formulas</u></p> <ul style="list-style-type: none"> • Ionic Compounds • Covalent Compounds 	<p>Unit 5: <u>Chemical Reactions</u></p> <ul style="list-style-type: none"> • Conservation of Mass & Balancing Equations • Endothermic & Exothermic Reactions <p>Unit 6: <u>Solutions</u></p> <ul style="list-style-type: none"> • Solutions Vocabulary • Water as a Solvent • Solubility Curves (saturation) • Factors Affecting Solubility <p>Unit 7: <u>Nuclear Chemistry</u></p> <ul style="list-style-type: none"> • Types of Nuclear Reactions • Applications of Nuclear Reactions <p>Final Exam Review and Exams</p>	<p>Unit 8: <u>Motion and Graphing</u></p> <ul style="list-style-type: none"> • Distance vs. Displacement and Motion Graphing • Speed & Graphing Speed • Acceleration <p>Unit 9: <u>Force and Motion</u></p> <ul style="list-style-type: none"> • Newton’s Laws Overview • Net Force of Motion • Force, Mass, and Acceleration • Universal Gravitation • Conservation of Momentum <p>Unit 10: <u>Energy</u></p> <ul style="list-style-type: none"> • Types of Energy • Conservation of Energy • Transfer of Heat Energy 	<p>Unit 11: <u>Renewable and Nonrenewable Energy</u></p> <ul style="list-style-type: none"> • Energy Resources & Applications • Environmental & Economic Impacts <p>Unit 12: <u>Electricity and Magnetism</u></p> <ul style="list-style-type: none"> • Basics of Electricity • Electrical Circuits • Electromagnets & Generators <p>Unit 13: <u>Waves</u></p> <ul style="list-style-type: none"> • Wave Characteristics & Behaviors • Sound • Electromagnetic Waves • Light <p>Final Exam Review and Exams</p>