

## Science Curriculum: Chemistry Block Schedule

### Georgia Performance Standards: Year Curriculum Map

This document is part of a framework that is designed to support the major concepts addressed in the Chemistry Curriculum of the Georgia Performance Standards through the processes of inquiry. These units are written to be stand alone units that may be taught in any sequence.

1 <sup>st</sup> Quarter	2 <sup>nd</sup> Quarter	3 <sup>rd</sup> Quarter	4 <sup>th</sup> Quarter
<b>Unit:</b> <b>FINDING ORDER: Atomic Structure, Energy, Moles</b>	<b>Unit:</b> <b>FINDING PATTERNS: Organizing Chemical Knowledge on the Periodic Table</b>	<b>Unit:</b> <b>EXPLORING CHANGE: Bonds, Energy, and Reactions</b>	<b>Unit:</b> <b>EXPLORING SYSTEMS: Reactions and Conditions</b>
3.5 – 4.5 weeks	3.5 – 4.5 weeks	3.5 – 4.5 weeks	3.5 – 4.5 weeks
<b>Focus:</b> <i>Order, atomic structure ,and properties</i> <i>Origin of the elements</i> <i>Modern atomic theory</i> <i>The mole</i> <i>Energy</i>	<b>Focus:</b> <i>Modern atomic theory</i> <i>Patterns in the properties of elements</i> <i>Periodicity</i> <i>The periodic table as dynamic graphic organizer</i> <i>Electron configuration.</i> <i>Stoichiometry</i>	<b>Focus:</b> <i>Atomic structure, bonding, and properties</i> <i>Chemical changes, bonds, energy</i> <i>Formulas and conservation of matter</i> <i>Chemical reactions</i> <i>Stoichiometry</i> <i>Law of Conservation of Matter and Energy</i>	<b>Focus:</b> <i>Chemical reaction systems</i> <i>Stoichiometry</i> <i>Physical systems</i> <i>Behavior of gases</i> <i>Solutions</i> <i>Factors that affect systems</i> <i>Equilibrium</i> <i>LeChatelier and Haber</i> <i>Acids and Bases</i>
<b>Each unit integrates laboratory experiences and field work using the process of inquiry.</b>			<b>GPS/End of Course Testing</b>
<b>NOTE:</b> There are several strategies that are common throughout the units such as the use of a laboratory notebook, written laboratory reports, and common teaching strategies. Keeping in mind that the standards are recursive in nature, it should be noted that many of the standards are revisited in different units throughout the year.			