

## CURRICULUM MAP FOR CHEMISTRY # 531 GRADES 10 and 11

(Suggested timeline for introducing content and process standards - some overlap all four quarters)

SCIENCE GSEs	1 <sup>st</sup> Quarter	2 <sup>nd</sup> Quarter	3 <sup>rd</sup> Quarter	4 <sup>th</sup> Quarter
1. Life Science				
2. Earth and Space Science	<ul style="list-style-type: none"> <li>• Nuclear chemistry 2.4.1-2.4.2</li> </ul> <p style="color: red;">Experiment/Activity: 2.4.3</p> <p style="color: red;">Open Response</p> <p style="color: red;">Assessment Target</p>	<p style="color: red;">Experiment/Activity</p> <p style="color: red;">Open Response</p> <p style="color: red;">Assessment Target</p>	<p style="color: red;">Experiment/Activity</p> <p style="color: red;">Open Response</p> <p style="color: red;">Assessment Target</p>	<p style="color: red;">Experiment/Activity</p> <p style="color: red;">Open Response</p> <p style="color: red;">Assessment Target</p>
3. Physical Science	<ul style="list-style-type: none"> <li>• Scientific Skills 3.1.26</li> <li>• Pure Substances 3.1.1, 3.1.3, 3.1.4</li> <li>• Mixtures 3.1.1, 3.1.2</li> <li>• Physical and chemical properties 3.1.6</li> <li>• Structure of the atom 3.1.16, 3.4.1 - 3.4.5, 3.2.1, 3.2.5, 3.4.9, 3.7.1</li> <li>• Nuclear changes 3.6.1-3.6.12</li> <li>• Periodic table 3.3.1-3.3.7, 3.4.10</li> </ul> <p style="color: red;">Experiment/Activities: 3.1.28, 3.1.29, 3.2.7, 3.2.8,</p>	<ul style="list-style-type: none"> <li>• Scientific Skills 3.1.26</li> <li>• Ionic compounds 3.4.6, 3.4.12</li> <li>• Covalent compounds 3.4.6, 3.4.12</li> <li>• Bonding 3.4.7, 3.4.8</li> <li>• Chemical reactions 3.1.9, 3.4.11, 3.4.13, 3.6.1</li> <li>• Molar mass 3.6.13, 3.6.14,</li> <li>• Percent composition 3.6.15</li> <li>• Stoichiometry 3.6.16, 3.6.17, 3.6.18</li> </ul> <p style="color: red;">Experiment/Activity: 3.4.15</p>	<ul style="list-style-type: none"> <li>• Scientific Skills 3.1.26</li> <li>• Properties (states) of matter 3.1.17, 3.1.18,</li> <li>• Gases 3.1.19 -3.1.24, 3.1.25, 3.1.26</li> <li>• Changes in energy 3.5.1-3.5.2, 3.6.2</li> <li>• Thermochemistry 3.5.3-3.5.14</li> </ul> <p style="color: red;">Experiment/Activities: 3.1.28, 3.5.16</p>	<ul style="list-style-type: none"> <li>• Scientific Skills 3.1.26</li> <li>• Mixtures and solutions 3.1.5, 3.1.7, 3.1.8</li> <li>• Acids and bases 3.1.10-3.1.15, 3.6.19</li> <li>• Electrochemistry 3.6.19</li> </ul> <p style="color: red;">Experiment/Activities 3.1.28, 3.6.21</p>

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	<p>3.3.8, 3.3.9, 3.4.16, 3.6.22</p> <p>Open Response</p> <p>Assessment Targets: 3.1 - 3.4</p>	<p>Open Response</p> <p>Assessment Target</p>	<p>Open Response: 3.5.17, 3.6.22</p> <p>Assessment Targets: 3.5, 3.6</p>	<p>Open Response</p> <p>Assessment Target</p>
<p><b>4. Inquiry</b></p>	<p><b>Inquiry Method</b></p> <ul style="list-style-type: none"> <li>• Collects data</li> <li>• Communicates understanding &amp; ideas</li> <li>• Designs, conducts, &amp; critiques investigations</li> <li>• Represents, analyzes, &amp; interprets data</li> <li>• Experimental design</li> <li>• Observes</li> <li>• Predicts</li> <li>• Questions and hypothesizes</li> <li>• Uses evidence to draw conclusions</li> <li>• Uses tools, &amp; techniques</li> </ul> <p>Open Response</p> <p>Assessment Target</p>	<p><b>Inquiry Method</b></p> <ul style="list-style-type: none"> <li>• Collects data</li> <li>• Communicates understanding &amp; ideas</li> <li>• Designs, conducts, &amp; critiques investigations</li> <li>• Represents, analyzes, &amp; interprets data</li> <li>• Experimental design</li> <li>• Observes</li> <li>• Predicts</li> <li>• Questions and hypothesizes</li> <li>• Uses evidence to draw conclusions</li> <li>• Uses tools, &amp; techniques</li> </ul> <p>Open Response</p> <p>Assessment Target</p>	<p><b>Inquiry Method</b></p> <ul style="list-style-type: none"> <li>• Collects data</li> <li>• Communicates understanding &amp; ideas</li> <li>• Designs, conducts, &amp; critiques investigations</li> <li>• Represents, analyzes, &amp; interprets data</li> <li>• Experimental design</li> <li>• Observes</li> <li>• Predicts</li> <li>• Questions and hypothesizes</li> <li>• Uses evidence to draw conclusions</li> <li>• Uses tools, &amp; techniques</li> </ul> <p>Open Response</p> <p>Assessment Target</p>	<p><b>Inquiry Method</b></p> <ul style="list-style-type: none"> <li>• Collects data</li> <li>• Communicates understanding &amp; ideas</li> <li>• Designs, conducts, &amp; critiques investigations</li> <li>• Represents, analyzes, &amp; interprets data</li> <li>• Experimental design</li> <li>• Observes</li> <li>• Predicts</li> <li>• Questions and hypothesizes</li> <li>• Uses evidence to draw conclusions</li> <li>• Uses tools, &amp; techniques</li> </ul> <p>Open Response</p> <p>Assessment Target</p>