



## SCIENCE CURRICULUM MAP - BIOLOGY

(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
	1.9.2 human environmental impacts (4 <sup>th</sup> quarter assessment only)  Experiment/Activity <ul style="list-style-type: none"> <li>• 1.1.9</li> <li>• 1.3.8</li> <li>• 1.4.5</li> <li>• 1.5.1</li> <li>• 1.5.2</li> <li>• 1.5.4</li> </ul> Open Response <ul style="list-style-type: none"> <li>• 1.1.10</li> <li>• 1.3.9</li> <li>• 1.4.6</li> <li>• 1.5.5</li> </ul> Assessment Target	Experiment/Activity <ul style="list-style-type: none"> <li>• 1.7.8</li> </ul> Open Response  Assessment Target	Experiment/Activity <ul style="list-style-type: none"> <li>• 1.2.8</li> <li>• 1.6.6</li> <li>• 1.7.8</li> </ul> Open Response <ul style="list-style-type: none"> <li>• 1.2.9</li> <li>• 1.6.7</li> <li>• 1.7.9</li> </ul> Assessment Target	1.10.1 interplay of systems 1.10.3 cardiovascular/respiratory/ digestive anatomy 1.10.4 immunity and disease 1.10.5- 1.10.6 homeostatic control  Experiment/Activity <ul style="list-style-type: none"> <li>• 1.6.6</li> <li>• 1.8.8</li> <li>• 1.10.8</li> </ul> Open Response <ul style="list-style-type: none"> <li>• 1.6.7</li> <li>• 1.8.9</li> <li>• 1.10.9</li> </ul> Assessment Target
<b>2. Physical Science</b>	3.1.1 organics 3.3.1 - 3.3.3, 3.4.1 - 3.4.4 periodic table 3.5.1 energy transformation 3.5.2 energy pyramid  3.5.4 photosynthesis/ respiration cycle  3.5.6 Law of Conservation of Energy <ul style="list-style-type: none"> <li>• energy pyramid assessed 1<sup>st</sup> semester</li> <li>• cellular respiration and photosynthesis assessed 2<sup>nd</sup> semester</li> </ul>	3.1.1 organics 3.3.1 - 3.3.3, 3.4.1 - 3.4.4 periodic table  3.5.3 ATP cycle  3.5.6 Law of Conservation of Energy <ul style="list-style-type: none"> <li>• energy pyramid assessed 1<sup>st</sup> semester</li> <li>• cellular respiration and photosynthesis assessed 2<sup>nd</sup> semester</li> </ul> 3.6.1 balance equation	3.5.5 respiration 3.5.6 Law of Conservation of Energy <ul style="list-style-type: none"> <li>• energy pyramid assessed 1<sup>st</sup> semester</li> <li>• cellular respiration and photosynthesis assessed 2<sup>nd</sup> semester</li> </ul> 3.6.1 balance equation	

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	<p>Experiment/Activity</p> <ul style="list-style-type: none"> <li>• 3.1.3</li> <li>• 3.3.5</li> <li>• 3.4.6</li> </ul> <p>Open Response</p> <ul style="list-style-type: none"> <li>• 3.4.7</li> </ul> <p>Assessment Target</p>	<p>3.6.2 Endo/exothermic 3.7.1 ionic bonds</p> <p>Experiment/Activity</p> <ul style="list-style-type: none"> <li>• 3.1.3</li> <li>• 3.3.5</li> <li>• 3.4.6</li> </ul> <p>Open Response</p> <ul style="list-style-type: none"> <li>• 3.4.7</li> </ul> <p>Assessment Target</p>	<p>3.6.2 Endo/exothermic</p> <p>Experiment/Activity</p> <ul style="list-style-type: none"> <li>• 3.5.8</li> </ul> <p>Open Response</p> <ul style="list-style-type: none"> <li>• 3.5.9</li> </ul> <p>Assessment Target</p>	
<b>3. Inquiry</b>	<ul style="list-style-type: none"> <li>• Identifying the problem</li> <li>• Questioning and hypothesizing</li> <li>• Predicting</li> <li>• Collecting data</li> <li>• Designing, conducting, &amp; critiquing investigations</li> <li>• Using tools and techniques safely</li> <li>• Representing, analyzing, and interpreting data</li> <li>• Using evidence to draw conclusions and communicate understanding of findings</li> </ul>	<ul style="list-style-type: none"> <li>• Identifying the problem</li> <li>• Questioning and hypothesizing</li> <li>• Predicting</li> <li>• Collecting data</li> <li>• Designing, conducting, &amp; critiquing investigations</li> <li>• Using tools and techniques safely</li> <li>• Representing, analyzing, and interpreting data</li> <li>• Using evidence to draw conclusions and communicate understanding of findings</li> </ul>	<ul style="list-style-type: none"> <li>• Identifying the problem</li> <li>• Questioning and hypothesizing</li> <li>• Predicting</li> <li>• Collecting data</li> <li>• Designing, conducting, &amp; critiquing investigations</li> <li>• Using tools and techniques safely</li> <li>• Representing, analyzing, and interpreting data</li> <li>• Using evidence to draw conclusions and communicate understanding of findings</li> </ul>	<ul style="list-style-type: none"> <li>• Identifying the problem</li> <li>• Questioning and hypothesizing</li> <li>• Predicting</li> <li>• Collecting data</li> <li>• Designing, conducting, &amp; critiquing investigations</li> <li>• Using tools and techniques safely</li> <li>• Representing, analyzing, and interpreting data</li> <li>• Using evidence to draw conclusions and communicate understanding of findings</li> </ul>