<table>
<thead>
<tr>
<th>Month</th>
<th>Topic Content</th>
<th>Skills</th>
<th>Concepts</th>
<th>Major Assessments</th>
<th>Learning Standards</th>
<th>Resource/Text Page</th>
</tr>
</thead>
</table>
| Sept. | • The Nature of Life  
|       | • Biology as a Science  
|       | • Basic Chemistry  
|       | • Chemical Compounds of Life  
|       | • The Cell  
|       | • Basic Vocabulary  
|       | • Lab Techniques and Cooperative Learning  
|       | • Reading and Problem Solving  
|       | • Note Taking  
|       | • Critical Thinking  
|       | • Class Participation  
|       | • Apply Scientific Concepts & Principles  
|       | • Life Processes  
|       | • Tools of Biology  
|       | • Atomic Structure  
|       | • Chemical Bonding  
|       | • Acids & Bases  
|       | • Biochemistry  
|       | • Cell Structure  
|       | • Exams  
|       | • Homework  
|       | • Lab Reports  
|       | • Quizzes  
|       | • Class Participation  
|       | 1.2d, Standard 1 Performance Indicators 1,2,3, 6.1c, 2.1f, 2.1g, 5.1f, 5.1g, 6.1c, 1.2a, 1.2e, 1.2f, 1.2g, 1.2h, 1.2i, 5.1b, 5.1e  
|       | Text – Chaps. 1 - 5  
| Oct.  | • Cellular Respiration  
|       | • Classification  
|       | • Nutrition  
|       | • Transport  
|       | • The Blood and Immunity  
|       | • Basic Vocabulary  
|       | • Lab Techniques and Cooperative Learning  
|       | • Reading and Problem Solving  
|       | • Note Taking  
|       | • Critical Thinking  
|       | • Class Participation  
|       | • Apply Scientific Concepts & Principles  
|       | • Respiration Types  
|       | • Taxonomy  
|       | • Nutrients & Digestion  
|       | • Circulation  
|       | • Blood Types  
|       | • Immune System  
|       | • Exams  
|       | • Homework  
|       | • Lab Reports  
|       | • Quizzes  
|       | • Class Participation  
|       | 1.2h, 5.1a, 5.1c, 5.1d, 5.1e, Appendix A Lab Checklist, Standard 1, 1.2b, 1.2h, 1.3a, 5.2b, 1.2h, 1.3a, 1.2b, 1.3a, 5.2c, 5.2d, 5.2f, 5.2g  
|       | Text – Chaps. 6 - 10  
| Nov.  | • Gas Exchange  
|       | • Excretion  
|       | • Support and Locomotion  
|       | • Basic Vocabulary  
|       | • Lab Techniques and Cooperative Learning  
|       | • Reading and Problem Solving  
|       | • Note Taking  
|       | • Critical Thinking  
|       | • Class Participation  
|       | • Apply Scientific Concepts & Principles  
|       | • Respiratory System  
|       | • Waste Removal  
|       | • Muscles & Skeleton  
|       | • Exams  
|       | • Homework  
|       | • Lab Reports  
|       | • Quizzes  
|       | • Class Participation  
|       | 1.2 b, 1.3a  
|       | Text – Chaps. 11 -13  
| Dec.  | • Nervous Regulation  
|       | • Human Nervous System  
|       | • Chemical Regulation  
|       | • Basic Vocabulary  
|       | • Lab Techniques and Cooperative Learning  
|       | • Reading and Problem Solving  
|       | • Note Taking  
|       | • Critical Thinking  
|       | • Class Participation  
|       | • Apply Scientific Concepts & Principles  
|       | • Nerve Cells  
|       | • CNS & PNS  
|       | • Sense Receptors  
|       | • Glands & Hormones  
|       | • Exams  
|       | • Homework  
|       | • Lab Reports  
|       | • Quizzes  
|       | • Class Participation  
|       | 1.2b, 1.2j, 1.3a, 5.3a, 1.2a, 5.1g, 1.2c, 5.1g, 5.2b  
|       | Text – Chaps. 14 - 16  

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plant Structure</td>
<td>Lab Techniques and Cooperative Learning</td>
<td>Roots, Stems, Leaves</td>
<td>Homework</td>
<td>5.1a, 5.1b, Appendix A Lab Checklist, 5.3b</td>
</tr>
<tr>
<td></td>
<td>Plant Function</td>
<td>Reading and Problem Solving</td>
<td>Regulation</td>
<td>Lab Reports</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Note Taking</td>
<td></td>
<td>Quizzes</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Critical Thinking</td>
<td></td>
<td>Class Participation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Class Participation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apply Scientific Concepts &amp; Principles</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Meiosis and Sexual Reproduction</td>
<td>Lab Techniques and Cooperative Learning</td>
<td>Gamete Formation</td>
<td>Homework</td>
<td>2.1d, 2.1e, 4.1b, 4.1c, 4.1a, 4.1d, 4.1e, 4.1f, 4.1g, 4.1h</td>
</tr>
<tr>
<td></td>
<td>Animal Development</td>
<td>Reading and Problem Solving</td>
<td>Embryonic Development</td>
<td>Lab Reports</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Human Reproduction</td>
<td>Note Taking</td>
<td>Reproductive Systems</td>
<td>Quizzes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sexual Reproduction in Plants</td>
<td>Critical Thinking</td>
<td></td>
<td>Class Participation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Class Participation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apply Scientific Concepts &amp; Principles</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mar.</th>
<th>Mendelian Genetics</th>
<th>Basic Vocabulary</th>
<th>Heredity</th>
<th>Exams</th>
<th>Text – Chaps. 25 – 27</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Modern Genetics</td>
<td>Lab Techniques and Cooperative Learning</td>
<td>Fundamentals of Genetics</td>
<td>Homework</td>
<td>2.1b, 2.1c, 2.1a, 2.1f, 2.1g, 2.1h, 2.1i, 2.1j, 2.2d, 3.1f, 5.2h, 2.2a, 2.2b, 2.2c, 2.2e, 3.1b, 3.1c, 3.1d, 4.1b, 5.2i</td>
</tr>
<tr>
<td></td>
<td>Applied Genetics</td>
<td>Reading and Problem Solving</td>
<td>DNA &amp; Inheritance</td>
<td>Lab Reports</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Note Taking</td>
<td>Gene Expression</td>
<td>Quizzes</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Critical Thinking</td>
<td>Mutations</td>
<td>Class Participation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Class Participation</td>
<td>Genetic Engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apply Scientific Concepts &amp; Principles</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Apr.</th>
<th>Evidence of Evolution</th>
<th>Basic Vocabulary</th>
<th>Evidence of the Origins of Life</th>
<th>Exams</th>
<th>Text – Chaps. 28 - 31</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Modern Theory of Evolution</td>
<td>Lab Techniques and Cooperative Learning</td>
<td>Adaptations</td>
<td>Homework</td>
<td>2.1a, 3.1a, 3.1e, 3.1j, 3.1l, 2.2a, 3.1e, 3.1f, 3.1g, 3.1h, 3.1i, 3.1k, 2.2c, 5.1b, 5.2b, 5.2e</td>
</tr>
<tr>
<td></td>
<td>Monerans, Protists and Viruses</td>
<td>Reading and Problem Solving</td>
<td>Natural Selection</td>
<td>Lab Reports</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fungi and Plants</td>
<td>Note Taking</td>
<td>Bacteria, Protozoans, &amp; Viruses</td>
<td>Quizzes</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Critical Thinking</td>
<td>Fungi and Plant Diversity</td>
<td>Class Participation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Class Participation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apply Scientific Concepts &amp; Principles</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>May</th>
<th>Behavior</th>
<th>Basic Vocabulary</th>
<th>Innate, Learned &amp; Social Behavior</th>
<th>Exams</th>
<th>Text – Chaps. 36 – 39</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Organization In The Biosphere</td>
<td>Lab Techniques and Cooperative Learning</td>
<td>Cycles and Relationships</td>
<td>Homework</td>
<td>3.1i, 1.1a, 1.1c, 1.1e, 1.1f, 6.1b, 6.1c, 6.1d, 6.1e, 6.1g, 6.2a, 6.2b, 6.3a, 6.3b, 6.3c, 7.1b, 7.2b, 1.1d, 5.2h, 6.1f, 7.1a, 7.1c, 7.2a, 7.2a, 7.2b, 7.2c</td>
</tr>
<tr>
<td></td>
<td>Biomes of the Earth</td>
<td>Reading and Problem Solving</td>
<td>Land &amp; Water Biomes</td>
<td>Lab Reports</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Human Ecology</td>
<td>Note Taking</td>
<td>Environmental Damage and Restoration</td>
<td>Quizzes</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Critical Thinking</td>
<td></td>
<td>Class Participation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Class Participation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apply Scientific Concepts &amp; Principles</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| June | • Regents Review and Practice Questions | • Basic Vocabulary  
• Lab Techniques and Cooperative Learning  
• Reading and Problem Solving  
• Note Taking  
• Critical Thinking  
• Class Participation  
• Apply Scientific Concepts & Principles | • See Sept. – May Concepts  
• Laboratory Experiences | • Practice Exams  
• Daily Quizzes & Homework  
• Class Participation | Incorporation of all standards in review of the chapters | Text – Chaps. 1 - 31 & 36 –39  
Also Review Book |