

## OLEAN HIGH SCHOOL

**Living Environment                      Grades 9 - 12**  
**Biology: The Study of Life, Prentice Hall**  
**Other Resources: Laboratory Manual / Review Book**

<b>Month</b>	<b>Topic Content</b>	<b>Skills</b>	<b>Concepts</b>	<b>Major Assessments</b>	<b>Learning Standards</b>	<b>Resource/ Text Page</b>
<b>Sept.</b>	<ul style="list-style-type: none"> <li>• The Nature of Life</li> <li>• Biology as a Science</li> <li>• Basic Chemistry</li> <li>• Chemical Compounds of Life</li> <li>• The Cell</li> </ul>	<ul style="list-style-type: none"> <li>• Basic Vocabulary</li> <li>• Lab Techniques and Cooperative Learning</li> <li>• Reading and Problem Solving</li> <li>• Note Taking</li> <li>• Critical Thinking</li> <li>• Class Participation</li> <li>• Apply Scientific Concepts &amp; Principles</li> </ul>	<ul style="list-style-type: none"> <li>• Life Processes</li> <li>• Tools of Biology</li> <li>• Atomic Structure</li> <li>• Chemical Bonding</li> <li>• Acids &amp; Bases</li> <li>• Biochemistry</li> <li>• Cell Structure</li> </ul>	<ul style="list-style-type: none"> <li>• Exams</li> <li>• Homework</li> <li>• Lab Reports</li> <li>• Quizzes</li> <li>• Class Participation</li> </ul>	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	<b>Text – Chaps. 1 - 5</b>
<b>Oct.</b>	<ul style="list-style-type: none"> <li>• Cellular Respiration</li> <li>• Classification</li> <li>• Nutrition</li> <li>• Transport</li> <li>• The Blood and Immunity</li> </ul>	<ul style="list-style-type: none"> <li>• Basic Vocabulary</li> <li>• Lab Techniques and Cooperative Learning</li> <li>• Reading and Problem Solving</li> <li>• Note Taking</li> <li>• Critical Thinking</li> <li>• Class Participation</li> <li>• Apply Scientific Concepts &amp; Principles</li> </ul>	<ul style="list-style-type: none"> <li>• Respiration Types</li> <li>• Taxonomy</li> <li>• Nutrients &amp; Digestion</li> <li>• Circulation</li> <li>• Blood Types</li> <li>• Immune System</li> </ul>	<ul style="list-style-type: none"> <li>• Exams</li> <li>• Homework</li> <li>• Lab Reports</li> <li>• Quizzes</li> <li>• Class Participation</li> </ul>	1.2h, 5.1a, 5.1c, 5.1d, 5.1e, Appendix A Lab Checklist, Standard 1, 1.2b, 1.2h, 1.3a, 5.2h, 1.2b, 1.3a1.2b, 1.3a, 5.2c. 5.2d, 5.2f, 5.2g	<b>Text – Chaps. 6 - 10</b>
<b>Nov.</b>	<ul style="list-style-type: none"> <li>• Gas Exchange</li> <li>• Excretion</li> <li>• Support and Locomotion</li> </ul>	<ul style="list-style-type: none"> <li>• Basic Vocabulary</li> <li>• Lab Techniques and Cooperative Learning</li> <li>• Reading and Problem Solving</li> <li>• Note Taking</li> <li>• Critical Thinking</li> <li>• Class Participation</li> <li>• Apply Scientific Concepts &amp; Principles</li> </ul>	<ul style="list-style-type: none"> <li>• Respiratory System</li> <li>• Waste Removal</li> <li>• Muscles &amp; Skeleton</li> </ul>	<ul style="list-style-type: none"> <li>• Exams</li> <li>• Homework</li> <li>• Lab Reports</li> <li>• Quizzes</li> <li>• Class Participation</li> </ul>	1.2 b, 1.3a	<b>Text – Chaps. 11 -13</b>
<b>Dec.</b>	<ul style="list-style-type: none"> <li>• Nervous Regulation</li> <li>• Human Nervous System</li> <li>• Chemical Regulation</li> </ul>	<ul style="list-style-type: none"> <li>• Basic Vocabulary</li> <li>• Lab Techniques and Cooperative Learning</li> <li>• Reading and Problem Solving</li> <li>• Note Taking</li> <li>• Critical Thinking</li> <li>• Class Participation</li> <li>• Apply Scientific Concepts &amp; Principles</li> </ul>	<ul style="list-style-type: none"> <li>• Nerve Cells</li> <li>• CNS &amp; PNS</li> <li>• Sense Receptors</li> <li>• Glands &amp; Hormones</li> </ul>	<ul style="list-style-type: none"> <li>• Exams</li> <li>• Homework</li> <li>• Lab Reports</li> <li>• Quizzes</li> <li>• Class Participation</li> </ul>	1.2b, 1.2j, 1.3a, 5.3a, 1.2a, 5.1g,1.2c, 5.1g, 5.2b	<b>Text – Chaps. 14 - 16</b>

<b>Jan.</b>	<ul style="list-style-type: none"> <li>Plant Nutrition</li> <li>Plant Structure</li> <li>Plant Function</li> </ul>	<ul style="list-style-type: none"> <li>Basic Vocabulary</li> <li>Lab Techniques and Cooperative Learning</li> <li>Reading and Problem Solving</li> <li>Note Taking</li> <li>Critical Thinking</li> <li>Class Participation</li> <li>Apply Scientific Concepts &amp; Principles</li> </ul>	<ul style="list-style-type: none"> <li>Photosynthesis</li> <li>Roots, Stems, Leaves</li> <li>Regulation</li> </ul>	<ul style="list-style-type: none"> <li>Exams</li> <li>Homework</li> <li>Lab Reports</li> <li>Quizzes</li> <li>Class Participation</li> </ul>	5.1a, 5.1b, Appendix A Lab Checklist, 5.3b	<b>Text – Chaps. 17 - 19</b>
<b>Feb.</b>	<ul style="list-style-type: none"> <li>Mitosis and Asexual Reproduction</li> <li>Meiosis and Sexual Reproduction</li> <li>Animal Development</li> <li>Human Reproduction</li> <li>Sexual Reproduction in Plants</li> </ul>	<ul style="list-style-type: none"> <li>Basic Vocabulary</li> <li>Lab Techniques and Cooperative Learning</li> <li>Reading and Problem Solving</li> <li>Note Taking</li> <li>Critical Thinking</li> <li>Class Participation</li> <li>Apply Scientific Concepts &amp; Principles</li> </ul>	<ul style="list-style-type: none"> <li>Types of Asexual Reproduction</li> <li>Gamete Formation</li> <li>Embryonic Development</li> <li>Reproductive Systems</li> </ul>	<ul style="list-style-type: none"> <li>Exams</li> <li>Homework</li> <li>Lab Reports</li> <li>Quizzes</li> <li>Class Participation</li> </ul>	2.1d, 2.1e, 4.1b, 4.1c, 4.1a, 4.1d, 4.1e, 4.1f, 4.1g, 4.1h	<b>Text – Chaps. 20 - 24</b>
<b>Mar.</b>	<ul style="list-style-type: none"> <li>Mendelian Genetics</li> <li>Modern Genetics</li> <li>Applied Genetics</li> </ul>	<ul style="list-style-type: none"> <li>Basic Vocabulary</li> <li>Lab Techniques and Cooperative Learning</li> <li>Reading and Problem Solving</li> <li>Note Taking</li> <li>Critical Thinking</li> <li>Class Participation</li> <li>Apply Scientific Concepts &amp; Principles</li> </ul>	<ul style="list-style-type: none"> <li>Heredity</li> <li>Fundamentals of Genetics</li> <li>DNA &amp; Inheritance</li> <li>Gene Expression</li> <li>Mutations</li> <li>Genetic Engineering</li> </ul>	<ul style="list-style-type: none"> <li>Exams</li> <li>Homework</li> <li>Lab Reports</li> <li>Quizzes</li> <li>Class Participation</li> </ul>	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	<b>Text – Chaps. 25 – 27</b>
<b>Apr.</b>	<ul style="list-style-type: none"> <li>Evidence of Evolution</li> <li>Modern Theory of Evolution</li> <li>Monerans, Protists and Viruses</li> <li>Fungi and Plants</li> </ul>	<ul style="list-style-type: none"> <li>Basic Vocabulary</li> <li>Lab Techniques and Cooperative Learning</li> <li>Reading and Problem Solving</li> <li>Note Taking</li> <li>Critical Thinking</li> <li>Class Participation</li> <li>Apply Scientific Concepts &amp; Principles</li> </ul>	<ul style="list-style-type: none"> <li>Evidence of the Origins of Life</li> <li>Adaptations</li> <li>Natural Selection</li> <li>Bacteria, Protozoans, &amp; Viruses</li> <li>Fungi and Plant Diversity</li> </ul>	<ul style="list-style-type: none"> <li>Exams</li> <li>Homework</li> <li>Lab Reports</li> <li>Quizzes</li> <li>Class Participation</li> </ul>	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	<b>Text – Chaps. 28 - 31</b>
<b>May</b>	<ul style="list-style-type: none"> <li>Behavior</li> <li>Organization In The Biosphere</li> <li>Biomes of the Earth</li> <li>Human Ecology</li> </ul>	<ul style="list-style-type: none"> <li>Basic Vocabulary</li> <li>Lab Techniques and Cooperative Learning</li> <li>Reading and Problem Solving</li> <li>Note Taking</li> <li>Critical Thinking</li> <li>Class Participation</li> <li>Apply Scientific Concepts &amp; Principles</li> </ul>	<ul style="list-style-type: none"> <li>Innate, Learned &amp; Social Behavior</li> <li>Cycles and Relationships</li> <li>Land &amp; Water Biomes</li> <li>Environmental Damage and Restoration</li> </ul>	<ul style="list-style-type: none"> <li>Exams</li> <li>Homework</li> <li>Lab Reports</li> <li>Quizzes</li> <li>Class Participation</li> </ul>	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	<b>Text – Chaps. 36 – 39</b>

<b>June</b>	<ul style="list-style-type: none"> <li>• <b>Regents Review and Practice Questions</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Basic Vocabulary</b></li> <li>• <b>Lab Techniques and Cooperative Learning</b></li> <li>• <b>Reading and Problem Solving</b></li> <li>• <b>Note Taking</b></li> <li>• <b>Critical Thinking</b></li> <li>• <b>Class Participation</b></li> <li>• <b>Apply Scientific Concepts &amp; Principles</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>See Sept. – May Concepts</b></li> <li>• <b>Laboratory Experiences</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Practice Exams</b></li> <li>• <b>Daily Quizzes &amp; Homework</b></li> <li>• <b>Class Participation</b></li> </ul>	<p><b>Incorporation of all standards in review of the chapters</b></p>	<p><b>Text – Chaps. 1 - 31 &amp; 36 –39</b></p> <p><b>Also Review Book</b></p>
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