# OLEAN HIGH SCHOOL

Living Environment  
Biology: The Study of Life, Prentice Hall  
Other Resources: Laboratory Manual / Review Book

**Grades 9-12**

<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>
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| 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, 1.2c, 1.2f, 1.2g, 1.2h, 1.2i, 5.1b, 5.1e | Text – Chaps. 1 - V |
| 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, 5.2h, 1.2b, 1.3a1.2b, 1.3a, 5.2c, 5.2d, 5.2f, 5.2g | Text – Chaps. VI - X |
| 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 | 1.2b, 1.3a | Text – Chaps. XI -XIII |
| Dec. | Nervous Regulation  
Human Nervous System  
Chemical Regulation | Basic Vocabulary  
Lab Techniques and Cooperative Learning  
Reading and Problem Solving | Nerve Cells  
CNS & PNS  
Sense Receptors  
Glands & Hormones | Exams  
Homework  
Lab Reports  
Quizzes  
Class | 1.2b, 1.2j, 1.3a, 5.3a, 1.2a, 5.1g,1.2c, 5.1g, 5.2b | Text – Chaps. XIV - XVI |
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<tr>
<th>Month</th>
<th>Topics</th>
<th>Participation</th>
<th>Text -</th>
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<tbody>
<tr>
<td>Feb.</td>
<td>Mitosis and Asexual Reproduction, Meiosis and Sexual Reproduction, Animal Development, Human Reproduction, Sexual Reproduction in Plants</td>
<td>Note Taking, Critical Thinking, Class Participation, Apply Scientific Concepts &amp; Principles</td>
<td>2.1d, 2.1e, 4.1b, 4.1c, 4.1a, 4.1d, 4.1e, 4.1f, 4.1g, 4.1h</td>
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<tr>
<td>Mar.</td>
<td>Mendelian Genetics, Modern Genetics, Applied Genetics</td>
<td>Note Taking, Critical Thinking, Class Participation, Apply Scientific Concepts &amp; Principles</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>
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<td>Apr.</td>
<td>Evidence of Evolution, Modern Theory of Evolution, Monerans, Protists and Viruses, Fungi and Plants</td>
<td>Note Taking, Critical Thinking, Class Participation, Apply Scientific Concepts &amp; Principles</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>
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<td>Month</td>
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<td>May</td>
<td>Behavior, Organization In The Biosphere, Biomes of the Earth, Human Ecology</td>
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<td>Basic Vocabulary, Lab Techniques and Cooperative Learning, Reading and Problem Solving, Note Taking, Critical Thinking, Class Participation, Apply Scientific Concepts &amp; Principles</td>
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<td>Innate, Learned &amp; Social Behavior, Cycles and Relationships, Land &amp; Water Biomes, Environmental Damage and Restoration</td>
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<td>Exams, Homework, Lab Reports, Quizzes, Class Participation, Apply Scientific Concepts &amp; Principles</td>
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<td>Text – Chaps. XXXVI–XXXIX</td>
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<td>June</td>
<td>Regents Review and Practice Questions</td>
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<td>Basic Vocabulary, Lab Techniques and Cooperative Learning, Reading and Problem Solving, Note Taking, Critical Thinking, Class Participation, Apply Scientific Concepts &amp; Principles</td>
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<td>See Sept. – May Concepts, Laboratory Experiences</td>
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<td>Practice Exams, Daily Quizzes &amp; Homework, Class Participation</td>
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<td>Incorporation of all standards in review of the chapters</td>
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<td>Text – Chaps. I - XXXI &amp; XXXVI – XXXIX</td>
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<td>Also Review Book</td>
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