<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. | • Environmental Science & Sustainability  
       • Ecosystems: Units of Sustainability  
       • Ecosystems: How They Work | • Basic Vocabulary  
       • Lab Techniques/Cooperative Learning  
       • Note Taking  
       • Critical Thinking  
       • Problem Solving  
       • Applying Concepts  
       • Class Participation | • Environmentalism  
       • The Global Picture  
       • Sustainable Development  
       • The Structure of Ecosystems  
       • How Ecosystems Work | • Exams  
       • Lab Reports  
       • Projects  
       • Portfolios  
       • Class Participation | 1.2a, .2b, 1.1a, 1.1c, 1.2c, 1.3a, 1.3c, 1e, 4.2a, 4.2b, 4.6a, 4.6b, 4.6c, 4.7a, 4.7b, 4.7c  
       7.1a, 7.1c | CH. 1-3 |
| Oct.  | • Ecosystems: In & Out of Balance  
       • Ecosystems: Adapting to Change  
       • The Global Human Population Explosion | • Basic Vocabulary  
       • Lab Techniques/Cooperative Learning  
       • Note Taking  
       • Critical Thinking  
       • Problem Solving  
       • Applying Concepts  
       • Class Participation | • Population Balance  
       • Growth Curves  
       • Ecological Successions  
       • Principles of Sustainability  
       • Selection  
       • Traits & Genes  
       • Evolution  
       • Global Changes  
       • Population Explosion – Causes  
       • Different Worlds  
       • Population Growth Dynamics | • Exams  
       • Lab Reports  
       • Projects  
       • Portfolios  
       • Class Participation | 1.1a, 1.1c, 1.2c, 1.1d, 4.2a, 4.2b, 4.3a, 4.3b, 4.4a, 4.5b, 4.6a, 4.6b, 4.6c, 4.7a, 4.7b, 4.7c | CH. 4-6 |
| Nov.  | • Addressing the Population Problem  
       • The Production & Distribution of Food | • Basic Vocabulary  
       • Lab Techniques/Cooperative Learning  
       • Note Taking  
       • Critical Thinking  
       • Problem Solving  
       • Applying Concepts  
       • Class Participation | • Population & Development  
       • Demographic Transition  
       • New Direction  
       • Crops & Animals: Major Patterns of Food Production  
       • Food Distribution & Trade  
       • Hunger, Malnutrition, & Famine  
       • Sustainability & Food  
       • Critical Thinking | • Exams  
       • Lab Reports  
       • Projects  
       • Portfolios  
       • Class Participation | 1.1a, 1.1b, 1.2c, 1.3a, 4.2a, 4.2b, 4.3a, 4.3b, 4.4a, 4.6a, 4.6b, 4.6c, 4.7a, 4.7b, 4.7c | CH. 7-8 |
| Dec. | Soil & the Soil Ecosystem | Basic Vocabulary | Plants & Soil |
| - | Pests & Pest Controls | Lab Techniques/Cooperative Learning | Losing Ground |
| - | Water, the Water Cycle, & Water Management | Note Taking | Need for Pest Control |
| - | | Critical Thinking | Chemical Approach |
| - | | Problem Solving | Alternative Pest Controls |
| - | | Applying Concepts | Socio. Issues in Pest management |
| - | | Class Participation | Public policy |
| - | | | The Water Cycle |
| - | | | Human Impact |
| - | | | Sources & Uses of Fresh Water |
| - | | | Overdrawing Water Resources |
| - | | | ? More Water |
| - | | | Using Less Water |
| - | | | Stormwater Management |
| - | | | | Exams |
| - | | | | Lab Reports |
| - | | | | Projects |
| - | | | | Portfolios |
| - | | | | Class Participation |
| - | | | | 1.1a, 1.1b, 1.2c, 1.3a, 4.2a, 4.2b, 4.3a, 4.3b, 4.4a, 4.6a, 4.6b, 4.6c, 4.7a, 4.7b, 4.7c |
| - | | | | CH. 9-11 |

| Jan. | Sediments, Nutrients, & Eutrophication | Basic Vocabulary | The Process of Eutrophication |
| - | Sewage Pollution & Rediscovering the Nutrient Cycle | Lab Techniques/Cooperative Learning | Combating Symptoms of Eutrophication |
| - | Pollution form Hazardous Chemicals | Note Taking | Long Term Strategies |
| - | | Critical Thinking | Sewage Hazards |
| - | | Problem Solving | Sewage Management & Treatment |
| - | | Applying Concepts | HAZMATS |
| - | | Class Participation | History |
| - | | | Cleanup |
| - | | | Management of New Wastes |
| - | | | Pollution Avoidance |
| - | | | | Exams |
| - | | | | Lab Reports |
| - | | | | Projects |
| - | | | | Portfolios |
| - | | | | Class Participation |
| - | | | | 1.1a, 1.1b, 1.2c, 1.3a, 4.2a, 4.2b, 4.3a, 4.3b, 4.4a, 4.6a, 4.6b, 4.6c, 4.7a, 4.7b, 4.7c |
| - | | | | CH. 12-14 |

| Feb. | Air Pollution & its Control | Basic Vocabulary | Atmospheric & Air Pollution Essentials |
| - | Major Atmospheric Changes | Lab Techniques/Cooperative Learning | Major Air Pollutants |
| - | | Note Taking | Sources |
| - | | Critical Thinking | Under Control |
| - | | Problem Solving | Indoor Pollution |
| - | | Applying Concepts | Acid Deposition |
| - | | Class Participation | Global Warming |
| - | | | Depletion of the Ozone |
| - | | | | Exams |
| - | | | | Lab Reports |
| - | | | | Projects |
| - | | | | Portfolios |
| - | | | | Class Participation |
| - | | | | 1.1a, 1.1b, 1.2a, 1.2c, 1.3a, 3.1a, 4.1a, 4.2a, 4.2b, 4.3a, 4.3b, 4.4a, 4.5a, 4.6a, 4.6b, 4.6c, 4.7a, 4.7b, 4.7c |
| - | | | | CH. 15-16 |
| Mar. | • Pollution & Public Policy  
• Wild Species: Biodiversity  
• Ecosystems as Resources  
| • Basic Vocabulary  
• Lab Techniques/Cooperative Learning  
• Note Taking  
• Critical Thinking  
• Problem Solving  
• Applying Concepts  
• Class Participation  
| • Origins of Environmental Public Policy  
• Economic Effects  
• Implementing Policies  
• Cost-Benefit Analysis  
• Risk Analysis  
• Saving Wild Species  
• Value of Wild Species  
• Biodiversity  
• Ecosystems Under Pressure  
• Conservation & Preservation  
| • Exams  
• Lab Reports  
• Projects  
• Portfolios  
• Class Participation  
| 1.1a, 1.1b, 1.2a,1.2c, 1.3a, 3.1a, 4.1a,4.2a, 4.2b, 4.3a, 4.3b, 4.4a, 4.5a, 4.6a, 4.6b, 4.6c, 4.7a, 4.7b, 4.7c | CH. 17-19 |
| Apr. | • Converting Trash to Resources  
• Energy Resources: The rise & Fall of Fossil Fuels  
| • Basic Vocabulary  
• Lab Techniques/Cooperative Learning  
• Note Taking  
• Critical Thinking  
• Problem Solving  
• Applying Concepts  
• Class Participation  
| • Solid Waste Problems  
• Solutions  
• Public Policy & Waste Management  
• Energy Sources & Uses  
• Declining Reserves of Crude Oil  
• Alternative Fossil Fuels  
• Global Warming  
• Sustainable Energy Options  
| • Exams  
• Lab Reports  
• Projects  
• Portfolios  
• Class Participation  
| 1.1a, 1.1b, 1.2a,1.2c, 1.3a, 3.1a, 4.1a,4.2a, 4.2b, 4.3a, 4.3b, 4.4a, 4.5a, 4.6a, 4.6b, 4.6c, 4.7a, 4.7b, 4.7c | CH. 20-21 |
| May | • Nuclear Power: Promise & Problems  
• Solar & Other Renewable Energy Sources  
• Lifestyle & Sustainability  
| • Basic Vocabulary  
• Lab Techniques/Cooperative Learning  
• Note Taking  
• Critical Thinking  
• Problem Solving  
• Applying Concepts  
• Class Participation  
| • How Nuclear Power Works  
• Radioactive Materials & Their Hazards  
• Advanced Reactors  
• Future & Nuclear Power  
• Principles of Solar Energy  
• Indirect Solar Energy  
• Hydropower, Wind, Geothermal Energy  
• Urban Sprawl  
• Exurban Migration  
• Sustainable Cities  
| • Exams  
• Lab Reports  
• Projects  
• Portfolios  
• Class Participation  
| 1.2a,1.2c, 1.3a, 3.1a, 4.1a,4.2a, 4.2b, 4.3a, 4.3b, 4.4a, 4.5a, 4.6a, 4.6b, 4.6c, 4.7a, 4.7b, 4.7c | CH. 22-24 |
| June | • Dream House Project  
• Final Exam  
| • Lab Techniques/Cooperative Learning  
• Critical Thinking  
• Problem Solving  
• Applying Concepts  
| • All Previous Knowledge applies  
• Final exam  
| Dream House Blueprints & House  
| All Previous STDs apply  
| All chapters and lab techniques. |