

7<sup>th</sup> Grade Life Science  
1<sup>st</sup> Semester

CONTENT	DATE
INTRODUCTION/LAB SAFETY	August 6 - 7
STRUCTURE AND FUNCTION OF CELLS	August 10-October 2
<ul style="list-style-type: none"><li>• Living Organisms</li><li>• Cells</li><li>• Project: Cell</li><li>• Animal Organelles</li><li>• Plant Organelles</li><li>• Animal Tissue</li><li>• Organs</li><li>• Organ Systems (Part 1)</li><li>• Organ Systems (Part 2)</li><li>• Respiratory System</li><li>• Bones and Joints</li><li>• Human Body Systems (Part 1)</li><li>• Circulatory System</li><li>• Project: Body System Interaction</li><li>• Special Project</li></ul>	
BIOLOGICAL TRAITS AND HEREDITY	October 5-December 11
<ul style="list-style-type: none"><li>• DNA</li><li>• Genetic Basics</li><li>• Project: Karyotype</li><li>• Humans and Genes</li><li>• Genetic Engineering and Ethics</li><li>• Asexual Reproduction</li><li>• Sexual Reproduction</li><li>• Speciation</li><li>• Human Disruption</li><li>• Special Project</li></ul>	
REVIEW AND EXAMS	December 14 - 18

7<sup>th</sup> Grade Life Science  
2nd Semester

CONTENT

DATE

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EVIDENCE OF EVOLUTION

January 4-February 12

- Mutation
- Evolution
- Other Methods of Evolution
- Project: Natural Selection
- Evolutionary Genetics
- Patterns of Inheritance
- Historical Genetics
- Evidence of Evolution
- Project: Metamorphosis
- Extinction
- Fossils
- Review
- Project: Design an Experiment
- Project: Conduct an Experiment
- Special Project

ORGANIZATION OF LIFE

February 15-March 5

- Taxonomy
- Plantae Kingdom
- Animalia Kingdom
- Special Project

ENERGY FLOW AND NUTRIENT CYCLING

March 8 - 26

- Cycles and Energy Flow
- Experiment: Biodegradability
- Nature: Balance
- Balance and Disruption
- Cellular Respiration
- Other Natural Cycles
- Symbiosis
- Food Chains and Webs
- Project: Food Web
- Resources
- Food
- Plants: Tropisms (Part 1)
- Special Project

7<sup>th</sup> Grade Life Science  
2nd Semester (Cont.)

CONTENT	DATE
<b>ECOLOGY</b>	April 5-May 7
<ul style="list-style-type: none"><li>• Course Overview</li><li>• Ecosystems</li><li>• Nature: Biomes (Part 1)</li><li>• Nature: Biomes (Part 2)</li><li>• Project: Biomes</li><li>• Project: Virtual Lab - Biome: Desert</li><li>• Project: Local Ecosystem</li><li>• Photosynthesis and Food</li><li>• Biodiversity</li><li>• Limiting Factors</li><li>• Competition and Cooperation</li><li>• Project: Virtual Lab - Biome: Coniferous</li><li>• Project: Virtual Lab - Biome: Grassland</li><li>• Natural Cycles</li><li>• Special Project</li></ul>	
<b>CULMINATING PROJECT</b>	May 10 - 14
<b>REVIEW</b>	May 17 - 21
<b>FINAL EXAMS</b>	May 24 - 26