

Honors Biology  
1<sup>st</sup> Semester

<b>CONTENT (APEX Units)</b>	<b>DATE</b>
UNIT 1: INTRODUCTION TO BIOLOGY Lessons 1: Biology as Science Lesson 2: Connections in Biology Lesson 3: Doing Science: Introduction to Biology Lesson 4: Introduction to Biology Wrap-Up	August 6 - 14
UNIT 2: THE CHEMISTRY OF BIOLOGY Lessons 1: Chemistry of Life Lesson 2: Carbohydrates, Lipids, and Nucleic Acids Lesson 3: Proteins, Enzymes, and Water Lesson 4: Doing Science: The Chemistry of Biology Lesson 5: The Chemistry of Biology Wrap-Up	August 17 - 28
UNIT 3: CELLS Lessons 1: Cell Structure Lesson 2: Cell Membrane Lesson 3: Cell Differentiation Lesson 4: Doing Science: Cells Lesson 5: Cells Wrap-Up	August 31 - September 18
UNIT 4: ENERGY TRANSFER Lessons 1: Photosynthesis Lesson 2: Cellular Respiration Lesson 3: Matter and Energy Lesson 4: Doing Science: Energy Transfer Lesson 5: Energy Transfer Wrap-Up	September 21 - October 9
UNIT 8: DNA TO PROTEIN Lessons 1: Structure of Genetic Material Lesson 2: From DNA to Protein Lesson 3: Changes to DNA Lesson 4: Doing Science: DNA to Protein Lesson 5: DNA to Protein Wrap-Up	October 19 - December 11
UNIT 6: SEMESTER 1 REVIEW AND EXAM Lesson 1: Semester 1 Review and Exam	December 14 - 18

Honors Biology  
2<sup>nd</sup> Semester

<b>CONTENT (APEX Units)</b>	<b>DATE</b>
UNIT 7: DNA AND HEREDITY Lessons	January 4 - 22
1: The Code of Life Lesson	
2: Passing On Traits Lesson	
3: Mendelian Genetics Lesson	
4: Doing Science: DNA and Heredity Lesson	
5: DNA and Heredity Wrap-Up	
UNIT 9: ECOSYSTEMS AND NATURAL SELECTION Lessons	January 25 - March 5
1: Ecosystems Lesson	
2: Populations Lesson	
3: Adaptation and Natural Selection Lesson	
4: Doing Science: Ecosystems and Natural Selection Lesson	
5: Ecosystems and Natural Selection Wrap-Up	
UNIT 10: EVOLUTION AND CLASSIFICATION Lessons	March 8 - April 23
1: Evolution Lesson	
2: Classification Lesson	
3: Diversity of Life Lesson	
4: Doing Science: Evolution and Classification Lesson	
5: Evolution and Classification Wrap-Up	
EOC Review	April 26 - 30
EOC Administration	May 3 - 7
Special Projects	May 10 - 21
UNIT 12: SEMESTER 2 REVIEW AND EXAM	May 24 - 28
Lesson 1: Semester 2 Review and Exam	

**Note: Unit 5 and unit 11 in the APEX platform should not be taught as a part of the Honors Biology course.**