

Content: Biology  
 Grade Level: 8  
 Team Members: Gray  
 Testing Totals: 11  
 Unit CFA's: 8  
 District: 3

## QUARTER 1

Dates	Unit Title	Objectives
14 days 3 weeks <b>CFA date:            September 19</b>	<b>Unit 1            Introduction to            Biology</b>	SOL Bio.1a Observations of living organisms SOL Bio. 1b Hypotheses are formulated Bio. 1c Variables are defined and investigations are designed to test hypotheses SOL Bio.1e-i: Conclusions/error/validity/safety/appropriate tech.
14 days 3 weeks <b>CFA date:            October 7</b>	<b>Unit 2            Biochemistry</b>	SOL Bio.2a-Water chemistry SOL Bio.2b-Macromolecules SOL Bio.5.h-Construction of proteins SOL Bio.2c-Enzymes
10 days 2 Week <b>CFA date:            October 28</b>	<b>Unit 3            Cytology</b>	SOL Bio.3 a/b-Cell theory/Prokaryotic & Eukaryotic cells SOL Bio. 3 b-Unicellular v. multicellular SOL Bio. 3C-Organelles SOL Bio. 2d-Photosynthesis and Respiration SOL Bio. 8b-Nutrient cycling
<b>Testing            Window            October 30<sup>th</sup> to            November 13<sup>th</sup></b>	<b>District Benchmark            Assessment</b>	<b>Quarter 1 Objectives</b>

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**QUARTER 2**

Dates	Unit Title	Objectives
11 days 2 weeks <b>CFA date:            November 19</b>	<b>Unit 4            Cell Boundaries</b>	Bio. 3d Cell membrane SOL Bio. 3e-Surface area/Volume ratio SOL Bio. 4b-Homeostasis
18 days 2.5 weeks <b>CFA date:            December 17</b>	<b>Unit 5            Cell Cycle with DNA            Replication</b>	SOL Bio.5a Cell growth and division SOL Bio.5c-Cell specialization SOL Bio. 5e Structural model of DNA SOL Bio. 5g-Nucleic Acids
28 days 4 weeks <b>CFA date:            February 6</b>	<b>Unit 6 &amp; 7            Molecular Genetics            &amp;            Meiosis and Mendelian            Genetics</b>	SOL Bio.5 i/j-use/limitation/misuse of genetic information; Impact of DNA technologies SOL Bio.5b (a)-Gamete formation (review of meiosis) SOL Bio.5d-Mendelian laws of heredity SOL Bio.5f-Genetic variation
<b>Testing Window            January 15<sup>th</sup> to            January 31<sup>st</sup></b>	<b>District Benchmark            Assessment</b>	<b>Quarter 2 Objectives</b>

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**QUARTER 3**

Dates	Unit Title	Objectives
19 days 3 weeks <b>CFA date:            February 27th</b>	<b>Unit 8            Classification</b>	SOL Bio. 6c- Developmental stages SOL Bio. 6b/6a- Fossil record interpretation & structural similarities SOL Bio. 4d-Human body systems SOL Bio.4a-Metabolic Activity SOL Bio.4f-Germ theory
15 days 2 weeks <b>CFA date:            March 23rd</b>	<b>Unit 9            Evolution</b>	SOL Bio. 7a Fossil Record SOL Bio. 6d-Biochemical similarities and differences SOL Bio.7b-Genetic variation/reproductive strategies SOL Bio. 7c-Natural selection SOL Bio. 7d New species SOL Bio. 7e Biological evolution
<b>Testing Window            March 27<sup>th</sup> to April 10<sup>th</sup></b>	<b>District Benchmark            Assessment</b>	<b>Quarter 3 Objectives</b>

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**QUARTER 4**

Dates	Unit Title	Objectives
17 days 2.5 weeks <b>CFA date:            April 8th</b>	<b>Unit 10            Ecology</b>	SOL Bio.8a-Carrying Capacity/limiting factors/growth curves Bio.8e- Virginia Ecosystems Bio.8c-Succession Patterns Bio.8d- Natural events & Human Activities
<b>Testing Window            March 24<sup>th</sup> to April 25<sup>th</sup></b>	<b>Mock SOL Test</b>	<b>Based on State Testing Blueprint</b>
<b>13 Days            May 8<sup>th</sup> to May 24<sup>th</sup></b>	<b>Data Based Review</b> Topics and objectives to be determined using data from Unit CFA's and DBA's.  Will be detailed in 4 week SOL Plan	

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<b>Unit Title</b>	<b>Copy of Test to Department Chair</b>	<b>Test Administered to Students</b>	<b>Data Team Meeting</b>	<b>Data Packet Due to Department Chair</b>
<b>Unit 1 Introduction to Biology</b>	9/12/19	9/19/19	9/27/19	9/30/19
<b>Unit 2 Biochemistry</b>	9/30/19	10/7/19	10/11/19	10/15/19
<b>Unit 3 Cytology</b>	10/12/19	10/28/19	11/1/19	11/4/19
<b>Unit 4 Cell Boundaries</b>	11/12/19	11/19/19	11/29/19	12/2/19
<b>Unit 5 Cell Cycle with DNA Replication</b>	12/10/19	12/17/19	12/20/19	1/6/20
<b>Unit 6 &amp; 7 Molecular Genetics &amp; Meiosis and Mendelian Genetics</b>	1/30/20	2/6/20	2/14/20	2/18/20
<b>Unit 8 Classification</b>	2/20/20	2/27/20	3/6/20	3/9/20
<b>Unit 9 Evolution</b>	3/16/20	3/23/20	3/27/20	3/30/20
<b>Unit 10 Ecology</b>	4/1/20	4/8/20	4/17/20	4/20/20