

Content: Science  
 Grade Level: 7 Honors  
 Team Members: Hanchey  
 Testing Totals: 14  
 Unit CFA's: 11  
 District: 3

## QUARTER 1

Dates	Unit Title	Objectives
<b>CFA date: September 17-18</b>	<b><u>Unit 1:</u> Scientific Investigation</b>	LS.1f: Dependent variables, independent variables, and constants LS.1a: Data tables LS.1c: Instruments to gather data LS.1b: Classification Systems LS.1g: Controlled variables and repeated trials LS.1i: Patterns in data LS.1e: Identify sources of experimental error
<b>CFA date: October 3-4</b>	<b><u>Unit 2:</u> Basics of Life (Cell Theory and Structure)</b>	LS. 2b: Plant and animal cells LS. 2a: Cell structure & organelles LS. 2c: Cell theory
<b>CFA date: October 24-25</b>	<b><u>Unit 3:</u> Cell Division, Cellular Organization, and Genetics</b>	LS. 2d: Cell division LS. 3a: Cells, tissues, organs, and systems LS. 3b: Cellular organization LS.12a: Structure and role of DNA LS.12b: Genes and chromosome LS.12c: Genotype and Phenotype LS.12d: Characteristics acquired and inherited LS.12e: Genetic Engineering LS.12f: Historical contributions
<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
<b>CFA date: November 13-14</b>	<b><u>Unit 4:</u> Evolution and Classification</b>	LS.13a: Mutation, adaptation, natural selection, and extinction LS.13b: Fossil record LS.13c: Diversity of organisms LS.4a: Domains of organisms LS.4b: Kingdoms of organisms LS.4c: Major animal phyla and plant divisions LS.4d: Characteristics that define a species
<b>CFA date: November 25-26</b>	<b><u>Unit 5:</u> Photosynthesis and Natural Cycles</b>	LS.5a: Sunlight and chlorophyll LS.5b: Transformation of water and carbon dioxide into sugar and oxygen LS.5c: Photosynthesis as the foundation of food webs LS.6a: Carbon, water, and nitrogen cycles LS.6b: Flow of energy and matter throughout a system
<b>CFA date: January 10-13</b>	<b><u>Unit 6:</u> Ecosystems, Biomes, Populations, and Communities</b>	LS. 9a: Ecosystems and biomes LS.9b: Land, marine, and freshwater ecosystems LS.9c: Adaptations LS.6c: Terrestrial, freshwater, and marine ecosystems LS.6d: Food webs and energy pyramid LS.10a: Phototropism, hibernation, and dormancy LS.10b: Factors that increase or decrease population size

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		LS.8a: Producers, consumers, and decomposers LS.8b: Predators and prey LS.8c: Competition and cooperation LS.8d: Symbiotic relationships LS.8e: Niches LS.7a: Competition, cooperation, social hierarchy, territorial imperative LS.7b: Influence of behavior on a population
<b>Testing Window January 16<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
<b>CFA Date: February 19-20</b>	<b><u>Unit 7:</u> Periodic Table, Nature of Matter, and Changes in Matter</b>	PS.3a: Dalton, Thomson, Rutherford, and Bohr PS.3b: Atomic Structure PS.4a: symbols, atomic numbers, atomic mass, chemical families (groups), and periods; PS.4b: Metals, Metalloids, and Nonmetals; and PS.4c: Ionic and covalent bonding. PS.2a: Particle theory of matter PS.2b: Elements, compounds, mixtures, acids, bases, and salts PS.2c: Solids, liquids, and gases PS.2d: Physical properties PS.2e: Chemical properties PS.2f: Matter based on Properties PS.5a: Physical changes PS.5b: Chemical changes PS.5c: Nuclear reactions
<b>CFA Date: March 11-12</b>	<b><u>Unit 8:</u> Temperature, Heat, and Energy</b>	PS.7a: Temperature scales and absolute zero PS.7b: Phase change PS.7c: Conduction, convection, and radiation PS.7d: Thermal energy transfer PS.6a: Potential and kinetic energy PS.6b: mechanical, chemical, electrical, thermal, radiant, and nuclear energy
<b>CFA Date: March 27-30</b>	<b><u>Unit 9:</u> Work, Force, and Motion</b>	PS.10a: speed, velocity, and acceleration PS.10b: Newton's laws of motion PS.10c: Work, force, mechanical advantage, efficiency, and power

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		PS.10d: Technological applications of work, force, and motion
<b>Testing Window</b> March 25 <sup>th</sup> to April 5 <sup>h</sup>	<b>District Benchmark Assessment</b>	<b>Quarter 3 Objectives</b>

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**QUARTER 4**

Dates	Unit Title	Objectives
<b>Testing Window</b> <b>March 25<sup>th</sup> to April 24<sup>th</sup></b>	<b>Mock SOL Test</b>	<b>Based on State Testing Blueprint</b>
<b>CFA Date:</b> <b>April 22-23</b>	<u><b>Unit 10 :</b></u> <b>Light and Sound</b>	PS.9a: Wave Characteristics PS.9b: Wave behavior of light PS.9c: Lenses and mirrors PS.9d: Electromagnetic Spectrum PS.9e: Applications of light PS.8a: Wave Characteristics PS.8b: Resonance PS.8c: Compression Waves PS.8d: Applications of Sound
<b>CFA Date:</b> <b>May 12-13</b>	<u><b>Unit 11:</b></u> <b>Electricity &amp; Magnetism</b>	PS.11a: Static electricity, current electricity, and circuits; PS.10b: Relationship between a magnetic field and an electric current PS.11c: Electromagnets, motors, and generators and their uses PS.11d: conductors, semiconductors, and insulators.
<b>May 13- SOL Testing Date</b>	<p style="text-align: center;"><b>Data Based Review</b>            Topics and objectives to be determined using data from Unit CFA's, DBA's and Star Assessments.</p> <p style="text-align: center;">Will be detailed in 4 week SOL Plan</p>	

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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 Scientific Investigation</b>	9/11/19	9/17-18/19	9/27/19	9/30/19
<b>Unit 2 Basics of Life- Cell Theory and Structure</b>	9/27/19	10/3-4/19	10/11/19	10/15/19
<b>Unit 3 Cell Division, Organization, Genetics</b>	10/18/19	10/24-25/18	11/1/19	11/4/19
<b>Unit 4 Evolution and Classification</b>	11/7/19	11/13-14/19	11/22/19	11/25/19
<b>Unit 5 Photosynthesis and Natural Cycles</b>	11/19/19	11/25-26/19	12/6/19	12/9/19
<b>Unit 6 Ecosystems, Biomes, Populations, Communities</b>	1/3/20	1/10/20	1/17/20	1/20/20
<b>Unit 7 Periodic Table, Nature of Matter, and Changes in Matter</b>	2/13/20	2/19-20/20	2/28/20	3/2/20
<b>Unit 8 Temperature, Heat, and Energy</b>	3/5/20	3/11-12/20	3/20/20	3/23/20
<b>Unit 9 Work, Force, and Motion</b>	3/20/20	3/27-30/20	4/3/20	4/6/20
<b>Mock SOL Test</b>	District Created	Window 3/25-4/24		
<b>Unit 10 Light and Sound</b>	4/16/20	4/22-23/20	5/1/20	5/4/20
<b>Unit 11 Electricity and Magnetism</b>	5/6/20	5/12-13/20	5/22/20	5/26/20