

Biology Year at a Glance

1st Nine Weeks	2nd Nine Weeks	3rd Nine Weeks	4th Nine Weeks
<p><u>Safety</u></p> <p><u>Unit 1: Ecology</u> Part I Trophic Levels & Energy Levels SC.912.L.17.9 Energy transfer SC.912.E.7.1 Biogeochemical cycles</p> <p>Part II Population Dynamics SC.912.L.17.2 Aquatic systems SC.912.L.17.4 Change in ecosystems SC.912.L.17.5 Populations SC.912.N.1.4 Reliability of a source SC.912.L.17.8 Loss of Biodiversity</p> <p>Part III Human Impact SC.912.L.17.11 Renewable/ nonrenewable resources SC.912.L.17.13 Environmental Parameter monitoring SC.912.L.17.20 Impact/Sustainability SC.912.N.1.3 Scientific argumentation</p> <p><u>Unit 2: Building Blocks of Life</u> SC.912.L.18.1 Macromolecules SC.912.L.18.11 Enzymes SC.912.L.18.12 Water</p> <p><u>Unit 3: Cell Structure & Function</u></p> <p>SC.912.L.14.1 Cell Theory SC.912.N.2.1 What is / isn't Science? SC.912.N.3.1 Scientific Theory SC.912.N.3.4 Theory / Law SC.912.L.14.2 Structure/ Function Cell SC.912.L.14.3 Plant/Animal Cells & Prokaryote/Eukaryote Cells SC.912.L.14.4 Microscopes SC.912.N.2.1 What is/isn't Science?</p>	<p><u>Unit 4: Plants</u> SC.912.L.14.7 Structure related to physiological processes</p> <p><u>Unit 5: Cellular Energy</u> SC.912.L.18.7 Photosynthesis SC.912.L.18.8 Respiration SC.912.L.18.9 Photosynthesis/ Respiration SC.912.L.18.10 ATP</p> <p><u>Unit 6: Cell Cycle</u> SC.912.L.16.8 Cell cycle SC.912.L.16.14 Mitosis SC.912.L.16.16 Meiosis SC.912.L.16.17 Mitosis / Meiosis</p>	<p><u>Unit 7: DNA,RNA- Replication – Protein Synthesis</u> SC.912.L.16.3 DNA Replication SC.912.L.16.4 Mutations SC.912.L.16.5 Transcription / Translation SC.912.L.16.9 Universal genetic code SC.912.L.16.10 Biotechnology</p> <p><u>Unit 8: Genetics & Heredity</u> SC.912.L.16.1 Mendel's Laws SC.912.L.16.2 Patterns of inheritance</p> <p><u>Unit 9a: Theory of Evolution</u> SC.912.L.15.1 Theory of Evolution SC.912.N.1.4 Reliability of a source SC.912.N.1.6 Inferences/ Observation SC.912.N.2.1 What is / isn't Science? SC.912.N.3.1 Theory SC.912.N.3.4 Theory / Law SC.912.L.15.13 Natural Selection SC.912.N.1.3 Scientific argumentation SC.912.L.15.15 Variations SC.912.L.15.14 Genetic flow and drift</p>	<p><u>Unit 9b: Continued Evolution</u> SC.912.L.15.10 Trends of Hominid evolution SC.912.L.15.8 Origin of Life SC.912.N.1.3 Scientific argumentation SC.912.N.1.4 Reliability of a source SC.912.N.2.1 What is / isn't Science?</p> <p><u>Unit 10: Classification & Kingdoms</u></p> <p>SC.912.L.15.4 Classification SC.912.L.15.5 Reason for Change SC.912.L.15.6 Domain & Kingdoms SC.912.N.1.3 Scientific argumentation SC.912.N.1.6 Inferences/ Observation</p> <p><u>Unit 11: Human Anatomy</u> SC.912.L.14.26 Brain SC.912.L.14.36 Blood Flow SC.912.L.14.52 Human Immune SC.912.L.16.13 Human Reproduction</p> <p>EOC Review</p> <p>LCS Approved HG&D Curriculum</p>

Suggested Chemistry Year at a Glance

1st Nine Weeks	2nd Nine Weeks	3rd Nine Weeks	4th Nine Weeks
<p><u>Safety</u> 3 days</p> <p><u>Unit 1: Matter and Change</u> 1-2 weeks</p> <p>SC.912.N.1.2 Scientific inquiry</p> <p>SC.912.N.1.7 The Scientific Method</p> <p>SC.912.N.4.1 Science and Society</p> <p>SC.912.P.8.1 States of Matter</p> <p>SC.912.P.8.2 Properties of matter</p> <p>SC.912.P.10.1 Energy Transformations</p> <p>SC.912.P.8.5 Properties of Atoms</p> <p><u>Unit 2: Measurements and Calculations</u> 2 weeks</p> <p>SC.912.N.1.6 Inferences and Observations</p> <p>SC.912.N.1.7 Scientific Questions</p> <p>SC.912.N.2.4 Scientific Examination</p> <p>SC.912.N.3.2 Development of Theories</p> <p>SC.912.N.3.3 Scientific Laws</p> <p><u>Unit 3: Atoms: The Building Blocks of Matter</u> 1-2 weeks</p> <p>SC.912.N.2.4 Scientific Examination</p> <p>SC.912.N.3.3 Scientific Laws</p> <p>SC.912.P.8.3 Atomic Theory</p> <p>SC.912.P.8.4 Atoms</p> <p>SC.912.P.8.9 Moles</p> <p><u>Unit 4: Arrangement of Electrons in Atoms</u> 3 weeks</p> <p>SC.912.P.8.3 Atomic Theory</p> <p>SC.912.P.8.4 Atomic Theory</p> <p>SC.912.P.10.9 Quantization of Energy</p> <p>SC.912.P.10.18 Electromagnetism</p> <p>SC.912.P.8.5 Periodic Table</p>	<p><u>Unit 5: The Periodic Law</u> 2-3 weeks</p> <p>SC.912.P.8.3 Atomic Theory</p> <p>SC.912.P.8.5 Electronic Properties</p> <p>SC.912.P.8.2 Physical v. Chemical</p> <p><u>Unit 6: Chemical Bonding</u> 2-3 weeks</p> <p>SC.912.P.8.6 Bonding Forces</p> <p>SC.912.P.8.7 Chemical Formulas</p> <p>SC.912.P.8.2 Properties of Matter</p> <p><u>Unit 7: Chemical Formulas and Chemical Compounds</u> 2-3 weeks</p> <p>SC.912.P.8.7 Molecular Formulas</p> <p>SC.912.P.8.9 Moles</p> <p><u>Unit 8: Chemical Equations and Reactions</u> 2 weeks</p> <p>SC.912.P.8.2 Properties of Matter</p> <p>SC.912.P.10.12 Types of Reactions</p> <p>SC.912.P.8.8 Types of Reactions</p>	<p><u>Unit 9: Stoichiometry</u> 3-4 weeks</p> <p>SC.912.P.8.9 Moles</p> <p><u>Unit 10: States of Matter</u> 1-2 weeks</p> <p>SC.912.P.8.1 States of Matter</p> <p>SC.912.P.8.2 Physical v. Chemical</p> <p>SC.912.P.10.5 Temperature</p> <p>SC.912.P.12.10 Ideal Gases</p> <p>SC.912.P.10.7 Endothermic v. Exothermic</p> <p>SC.912.P.12.11 Kinetic Molecular Theory</p> <p>SC.912.P.12.13 Dynamic Equilibrium</p> <p>SC.912.L.18.12 Water Properties</p> <p><u>Unit 11: Gases</u> 3 weeks</p> <p>SC.912.P.12.10 Idea Gases</p> <p>SC.912.N.3.3 Scientific Laws</p> <p><u>Unit 12: Solutions</u> 2 weeks</p> <p>SC.912.P.12.13 Dynamic Equilibrium</p>	<p><u>Unit 13: Ions in Aqueous Solutions and Colligative Properties</u> 2 weeks</p> <p>SC.912.L.18.12 Properties of Water</p> <p><u>Unit 14: Acids and Bases</u> 2 weeks</p> <p>SC.912.P.8.11 pH</p> <p>SC.912.P.8.8 Types of Reactions</p> <p><u>Unit 15: Acid-Base Titrations and pH</u> 2 weeks</p> <p>SC.912.P.8.11 pH</p> <p><u>Unit 16: Reaction Energy</u> 2 weeks</p> <p>SC.912.P.10.1 Transformation of Energy</p> <p>SC.912.P.10.5 Temperature</p> <p>SC.912.P.10.6 Potential Energy Diagrams</p> <p>SC.912.P.10.7 Endothermic v. Exothermic</p> <p>SC.912.L.18.12 Properties of Water</p>

*Nature of Science Standards embedded throughout the year

Bold and Italicized= Parent Standards based on FLDOE

High School Earth Space Science Year at a Glance

Suggested Time Frame

Suggested Time Frame			
1st Nine Weeks	2nd Nine Weeks	3rd Nine Weeks	4th Nine Weeks
<p>Lab Safety</p> <p>Unit 1:</p> <p>Intro to Earth & Space</p> <p>SC.912.N.1.4 SC.912.N.1.5 SC.912.N.1.2 SC.912.N.1.6 SC.912.N.2.1 SC.912.N.2.2 SC.912.N.1A SC.912.N.2.3 SC.912.N.1.1.5 SC.912.N.2.4 SC.912.N.1.1.6 SC.912.N.2.5 SC.912.N.1.1.7 SC.912.N.3.1 SC.912.N.1.1.8 SC.912.N.3.2 SC.912.N.1.1.9 SC.912.N.3.3 SC.912.N.1.1.10 SC.912.N.3.4 SC.912.N.1.1 SC.912.N.3.5</p> <p>Unit 2:</p> <p>Studying Space</p> <p>SC.912.E.5.2 SC.912.E.6.3 SC.912.E.5.6 *SC.912.N.2.5 SC.912.E.5.8 *SC.912.N.3.4 SC.912.E.5.9 *SC.912.N.3.5 SC.912.E.5.10 SC.912.P.10.18 SC.912.E.5.11 SC.912.P.10.19 *SC.912.N.1.5 SC.912.P.10.20 *SC.912.N.2.4 SC.912.P.12.2</p> <p>Unit 3:</p> <p>The Universe</p> <p>SC.912.E.5.1 SC.912.E.5.11 SC.912.E.5.2 SC.912.E.5.3 SC.912.E.5.4 *SC.912.N.1.1 *SC.912.N.1.5 *SC.912.N.3.1 *SC.912.N.3.4 SC.912.P.10.10 SC.912.P.10.11</p>	<p>Unit 4:</p> <p>Our Solar System</p> <p>SC.912.E.5.2 SC.912.E.5.5 *SC.912.N.1.5</p> <p>Unit 5:</p> <p>Geologic Time & Earth's History</p> <p>SC.912.E.6.5 SC.912.L.15.1 SC.912.L.15.8 *SC.912.N.1.5 SC.912.P.10.11</p> <p>Unit 6:</p> <p>Earth's Systems</p> <p>SC.912.E.6.6 SC.912.E.7.1 SC.912.E.7.3 *SC.912.N.1.4 *SC.912.N.1.5 *SC.912.N.3.5 *SC.912.N.4.1 SC.912.P.10.11 SC.912.P.10.4</p> <p>**Progress Monitoring & Mid Term Exam**</p>	<p>Unit 7:</p> <p>Plate Tectonics & Earth's Internal Structure</p> <p>SC.7.E.6.5 SC.7.E.6.7 *SC.7.N.3.2 SC.912.E.6.1 SC.912.E.6.2 SC.912.E.6.3 *SC.912.N.1.5 *SC.912.N.2.4 *SC.912.N.3.1 SC.912.P.10.16</p> <p>Unit 8:</p> <p>Earthquakes & Volcanoes</p> <p>SC.912.E.6.2 *SC.912.N.1.5 *SC.912.N.4.1</p> <p>Unit 9:</p> <p>Rocks and the Rock Cycle</p> <p>SC.912.E.6.2 *SC.912.N.1.5</p>	<p>Unit 10:</p> <p>Minerals</p> <p>SC.912.P.8.4 *SC.912.N.1.5</p> <p>Unit 11:</p> <p>Studying the Hydrosphere</p> <p>SC.912.E.5.6 SC.912.E.6.5 SC.912.E.7.1 SC.912.E.7.2 SC.912.E.7.4 *SC.912.N.1.5</p> <p>Unit 12:</p> <p>The Atmosphere</p> <p>SC.912.E.7.3 *SC.912.N.1.5</p> <p>Unit 13:</p> <p>Weather and Climate</p> <p>SC.912.E.6.4 SC.912.E.7.4 SC.912.E.7.5 SC.912.E.7.6 SC.912.E.7.7 SC.912.E.7.8 SC.912.E.7.9 *SC.912.N.1.4 *SC.912.N.1.5 *SC.912.N.3.5 *SC.912.N.4.1</p> <p>Human Growth & Development LCS Approved HG&D Curriculum **Progress Monitoring & Final Exam**</p>

*Nature of Science Standards embedded throughout the year

Bold and Italicized= Parent Standards based on FLDOE Item Specs

High School Physical Science

Year at a Glance

Suggested Time Frame			
1st Nine Weeks	2nd Nine Weeks	3rd Nine Weeks	4th Nine Weeks
<p>Safety 2 days</p> <p>1. *Nature of Science 1 – 2 weeks SC.912.N.1.1, SC.912.N.1.2 SC.912.N.1.3, SC.912.N.1.4 SC.912.N.1.5, SC.912.N.1.6 SC.912.N.1.7, SC.912.N.2.1 SC.912.N.2.2, SC.912.N.2.3 SC.912.N.2.4, SC.912.N.2.5 SC.912.N.3.1, SC.912.N.3.3 SC.912.N.3.4, SC.912.N.3.5 SC.912.N.4.1, SC.912.N.4.2</p> <p>2. Motion & Forces 2 – 3 weeks SC.912.P.10.10, SC.912.P.12.2 SC.912.P.12.3, SC.912.P.12.4</p> <p>3. Work & Energy 2 – 3 weeks SC.912.P.10.1, SC.912.P.10.3 SC.912.P.10.4, SC.912.P.10.5 *SC.912.N.4.1, *SC.912.N.4.2 *SC.912.N.1.1, *SC.912.N.1.6 *SC.912.N.2.5, *SC.912.N.3.5</p>	<p>4. Electricity & Magnetism 2 – 3 weeks SC.912.P.10.1, SC.912.P.10.10 SC.912.P.10.14, SC.912.P.10.15 *SC.912.N.2.5, *SC.912.N.3.5</p> <p>5. Waves 2 weeks SC.912.P.10.18</p> <p>6. Electromagnetic Waves & Light 2 – 3 weeks SC.912.P.12.7, *SC.912.N.1.1 *SC.912.N.1.3, *SC.912.N.1.4 *SC.912.N.1.5, *SC.912.N.3.5</p> <p>7. Sound & Optics 1 – 2 weeks SC.912.P.10.18, SC.912.P.10.21</p>	<p>8. Matter 3 weeks SC.912.L.18.12, SC.912.P.8.1 SC.912.P.8.2, SC.912.P.10.15 SC.912.P.12.10, SC.912.P.12.11</p> <p>9. Atomic Structure 3 weeks SC.912.P.8.4, *SC.912.N.2.4 *SC.912.N.3.2, *SC.912.N.3.5</p> <p>10. Periodic Table & Elements 3 weeks SC.912.P.8.5 SC.912.L.18.8, *SC.912.N.2.4 *SC.912.N.3.2, *SC.912.N.3.5</p>	<p>11. Chemical Bonds & Reactions 4 weeks SC.912.L.18.7 SC.912.P.8.7, SC.912.P.8.8 SC.912.P.10.7, SC.912.P.10.10 SC.912.P.10.12, SC.912.P.12.12, *SC.912.N.3.5</p> <p>12. Solutions, Acids, Bases, & Salts 2 weeks SC.912.P.8.11</p> <p>13. Organic Compounds & New Materials 2 weeks SC.912.E.7.1, SC.912.P.10.14</p>

*Nature of Science Standards embedded throughout the year

Physics Year at a Glance

Physics Year at a Glance

Suggested Time Frame			
1st Nine Weeks	2nd Nine Weeks	3rd Nine Weeks	4th Nine Weeks
<p><u>Safety</u> 2 days</p> <p><u>Unit 1: Measurement and Data Analysis</u> 2 weeks SC.912.N.1.1-Scientific Method SC.912.N.1.2- What is Science SC.912.N.1.5- Same results worldwide *SC.912.N.1.6- Inferences from observations *SC.912.N.1.7- Creativity</p> <p><u>Unit 2: Kinematics</u> 3 weeks SC.912.P.12.1- Scalar vs Vector SC.912.P.12.2- Motion *SC.912.N.1.6- inferences from observation</p> <p><u>Unit 3: Dynamics/Statics</u> 4 weeks SC.912.P.12.3- Newton's Laws SC.912.P.12.4- Gravitational force *SC.912.N.3.3- Scientific Laws</p>	<p><u>Unit 4: Energy/Work/Momentum</u> 4-5 weeks SC.912.P.12.5- Linear momentum SC.912.P.12.6- Angular momentum SC.912.P.10.3- Work vs. Power SC.912.P.10.6- Potential energy SC.912.P.10.1- Energy transfers SC.912.P.10.2- Conservation of energy</p> <p><u>Unit 5: Heat/Thermodynamics</u> 3-5 weeks SC.912.P.10.4- Heat transfer SC.912.P.10.5- Molecular kinetic energy SC.912.P.10.7- Endo/exothermic SC.912.P.10.8- Entropy SC.912.P.8.1- States of matter SC.912.P.10.2- Conservation of Energy</p>	<p><u>Unit 6: Waves & Optics</u> 4 weeks SC.912.P.10.20- Properties of waves SC.912.P.10.21- frequency due to source SC.912.P.10.22- Ray diagrams *SC.912.N.3.1- Scientific Theory *SC.912.N.3.2- consensus</p> <p><u>Unit 7: Electrostatics/DC circuits</u> 4 weeks SC.912.P.10.13- Static charges SC.912.P.10.14- Conductors/Semiconductors/insulators SC.912.P.10.15-Currents/voltage/resistance/power</p>	<p><u>Unit 8: Electrodynamics</u> 4 weeks SC.912.P.10.16- moving charges SC.912.P.10.17- electromagnetism (oscillating fields) SC.912.P.10.18 electromagnetism (spectrum)</p> <p><u>Unit 9: Modern Physics</u> 4 weeks SC.912.P.8.3- Atomic model changes SC.912.P.8.4- Parts of an atom SC.912.P.12.7- Speed of light SC.912.P.12.8- Special relativity SC.912.P.12.9- Time/length/energy depends on frame of reference SC.912.P.10.10- Fundamental forces SC.912.P.10.9- mass-energy equivalence SC.912.P.10.12-fission/fusion SC.912.P.10.11-nuclear power SC.912.P.10.19-emission/absorption spectrum *SC.912.N.2.4- Science is durable</p>

*Embedded throughout the year