

Westmoreland County Public Schools
Integrated Instructional Pacing Guide
Life Science
2011-2012

Text: Prentice Hall Science Explorer: Life Science

<i>Week 1</i>	<i>Week 2</i>	<i>Week 3</i>
<p>Topics:</p> <ul style="list-style-type: none"> ☆ Introduction to Life Science ☆ Lab Safety ☆ Science Process Skills (classifying, observing, measuring, making inferences) ☆ Cells ☆ Looking Inside Cells ☆ Origin of Life <p>Text: Introduction and Chapter 1</p> <p>Demos:</p> <p>Lab: Microscope Use</p> <p>Video: <i>The Magic of Cells</i></p> <p>SOL's: LS.1 a,b,c,f,g,j; LS.2 a,b,c; LS.3 b</p> <ul style="list-style-type: none"> ↪ Responsibility (class rules, lab expectations) ↻ Internet safety (AUP rules; techniques for evaluating information; potential dangers; precautions/problem resolution) 	<p>Topics:</p> <ul style="list-style-type: none"> ☆ Cell Processes and Energy ☆ Chemical Compounds in Cells ☆ Cells in the Environment ☆ Photosynthesis ☆ Respiration ☆ Cell Division <p>Text: Chapter 2</p> <p>Demos:</p> <p>Lab:</p> <p>Videos: <i>Meiosis & Mitosis</i></p> <p>SOL's: LS.1 a-c; LS.2 a,d; LS.3 b; LS.4 a; LS.6 a-c; LS.13 a,b</p> <ul style="list-style-type: none"> ↻ Cybersafety Reminders 	<p>Topics:</p> <ul style="list-style-type: none"> ☆ Mendel ☆ Probability and Genetics ☆ Cells and Inheritance ☆ DNA <p>Text: Chapter 3</p> <p>Demos:</p> <p>Lab:</p> <p>Activity:</p> <p>Video:</p> <p>SOL's: LS.1 a,d,e,g,i; LS.3 b; LS.13 a,b,d,e,g; LS.14 a</p> <ul style="list-style-type: none"> ↻ Cybersafety Reminders
<p style="text-align: center;"><i>Week 4</i></p> <p>Topics:</p> <ul style="list-style-type: none"> ☆ Modern Genetics ☆ Human Inheritance ☆ Genetic Disorders <p>Text: Chapters 4 & 5</p> <p>Demos:</p> <p>Labs: Genetics Lab</p> <p>SOL's: LS.1 a,c,d,i; LS.13 b-g; LS.14 a-c</p> <ul style="list-style-type: none"> ↪ Cooperation (cooperation plan, working together during labs) ↻ Cybersafety Reminders 	<p style="text-align: center;"><i>Week 5</i></p> <p>Topics:</p> <ul style="list-style-type: none"> ☆ Review Cells and Genetics <p>Text: Chapters 1-5</p> <p>Demos:</p> <p>Lab:</p> <p>Activity:</p> <p>SOL's: See list from Weeks 1-4</p> <ul style="list-style-type: none"> ↻ Cybersafety Reminders 	<p style="text-align: center;"><i>Week 6</i></p> <p>Topics:</p> <ul style="list-style-type: none"> ☆ Bacteria and Viruses ☆ Classification ☆ Kingdoms <p>Text: Chapter 6</p> <p>Demos:</p> <p>Lab:</p> <p>Video: <i>Classification of Living Things & Ebola</i></p> <p>SOL's: LS.1 a-d, f, g, j; LS.2 a; LS.3 b; LS.4 c; LS.5 a,b; LS.12 d</p> <ul style="list-style-type: none"> ↻ Cybersafety Reminders

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<i>Week 7</i>	<i>Week 8</i>	<i>Week 9</i>
<p>Topics: ☆ Protists and Fungi</p> <p>Text: Chapters 7 & 8</p> <p>Demos:</p> <p>Lab:</p> <p>Activity:</p> <p>SOL's: LS.1 a-d,f,g,j; LS.2 a; LS.3 a,b; LS.4 a-c; LS.5 a-c; LS.7 c; LS.11 b; LS.12 a,d,e</p> <p>📌 Cybersafety Reminders</p>	<p>Topics: ☆ Introduction to Plants ☆ Plant Kingdom ☆ Photosynthesis ☆ Mosses ☆ Liverworts ☆ Hornworts ☆ Ferns</p> <p>Text: Chapter 8</p> <p>Demos:</p> <p>Labs:</p> <p>Video: <i>Plant Politics</i></p> <p>SOL's: LS.1 a,b,c,f,g; LS.3 b; LS.4 a,c; LS.5 a-c; LS.12 a,d</p> <p>📌 Cybersafety Reminders</p>	<p>Topics: ☆ Seed Plants ☆ Gymnosperms ☆ Angiosperms ☆ Plant Responses & Growth ☆ Sponges, Cnidarians, & Worms</p> <p>Text: Chapters 9 & 10</p> <p>Labs: Flower Dissection; Earthworm dissection</p> <p>Video: <i>Eyewitness Plants</i></p> <p>SOL's: LS.1 a-d, f,g,i; LS.2 a; LS.3 a,b; LS.4 a-c; LS.5 a-c; LS.6 a,b; LS.9 a; LS.10 c; LS.11 a; LS.12 a</p> <p>✓ Responsibility and Cooperation</p> <p>📌 Cybersafety Reminders</p>
<p style="text-align: center;"><i>Week 10</i></p> <p>Topics: ☆ Mollusks ☆ Bivalves ☆ Arthropods ☆ Molting ☆ Metamorphosis ☆ Echinoderm ☆ Endoskeleton</p> <p>Text: Chapter 11</p> <p>Activities:</p> <p>SOL's: LS.1 a-c,g,i; LS.3 a,b; LS.4 b; LS.5 a-c; LS.8 a,b; LS.9 b; LS.10 c; LS.12 e</p> <p>📌 Cybersafety Reminders</p>	<p style="text-align: center;"><i>Week 11</i></p> <p>Topics: ☆ Fish ☆ Amphibians ☆ Habitats ☆ Reptiles</p> <p>Text: Chapter 12</p> <p>Demos:</p> <p>Activity:</p> <p>Video: <i>Eyewitness Amphibian & Eyewitness Fish</i></p> <p>Computer: CD-ROM on dissections</p> <p>SOL's: LS.1 a-d,i; LS.3 a,b; LS.4 b,c; LS.5 a-c; LS.10 c; LS.11 b,c; LS.12 a,b,d,e; LS.14 c</p>	<p style="text-align: center;"><i>Week 12</i></p> <p>Topics: ☆ Birds ☆ Mammals</p> <p>Text: Chapter 13</p> <p>Demos:</p> <p>Lab: Owl Pellet</p> <p>SOL's: PS.1 a-d,h; LS.3 a,b; LS.4 b; LS.5 a-c; LS.8 b; LS.10 c; LS.14 a,b</p> <p>✓ Responsibility and Cooperation</p>

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<p style="text-align: center;"><i>Week 13</i></p> <p>Topics: ☆ Animals ☆ Patterns of Animal Behavior</p> <p>Text: Chapter 14</p> <p>Demos:</p> <p>Lab:</p> <p>Videos: <i>Audubon Animal Adventures; Audubon Eagle; Survival; About Wildlife</i></p> <p>SOL's: LS. 1 a,b,d; LS.3 b; LS.4 b,c; LS.5 c; LS.8 a,b; LS.9 c; LS.10 c</p>	<p style="text-align: center;"><i>Week 14</i></p> <p>Topics: ☆ Bones, Muscles, & Skin ☆ Skeletal System ☆ Muscular System ☆ <u>Review for Benchmark Test!</u></p> <p>Text: Chapter 15</p> <p>Demos:</p> <p>Lab:</p> <p>Video: <i>Eyewitness Skeleton</i></p> <p>SOL's: LS.1 b,d,i; LS.3 a,b; LS.5 c; LS.10 c</p>	<p style="text-align: center;"><i>Week 15</i></p> <p>Topics: ☆ Food ☆ Digestion ☆ Digestive Process</p> <p>Text: Chapter 16</p> <p>Demos:</p> <p>Lab:</p> <p>Video: <i>Eyewitness Human Machine</i></p> <p>Assessment: <u>Benchmark Test</u></p> <p>SOL's: LS.1 a,h; LS.3 a,b; LS.4 b; LS.5 c; LS.7 b</p>
<p style="text-align: center;"><i>Week 16</i></p> <p>Topics: ☆ Populations ☆ Communities ☆ Interaction of Populations and the Environment</p> <p>Text: Chapter 22</p> <p>Demos:</p> <p>Lab:</p> <p>SOL's: LS.1 a-d,h; LS.4 a; LS.9 b-c; LS.10 c; LS.11 b; LS.12 c,d</p>	<p style="text-align: center;"><i>Week 17</i></p> <p>Topics: ☆ Ecosystems ☆ Biomes ☆ Energy Flow ☆ Succession</p> <p>Text: Chapter 23</p> <p>Demos:</p> <p>Lab:</p> <p>Videos: <i>Eyewitness Jungle, Desert, Ocean, Pond & River; Arctic & Antarctic</i></p> <p>SOL's: LS.1 a,b,f,g,i; LS.6 b,c; LS.7 a,b,d; LS.9 a,c,e; LS.10 a-c</p> <p>📧 Cybersafety Reminders</p>	<p style="text-align: center;"><i>Week 18</i></p> <p>Topics: ☆ Living Resources ☆ Biodiversity ☆ Environmental Issues</p> <p>Text: Chapter 24</p> <p>Demos:</p> <p>Lab:</p> <p>Video: <i>Chesapeake: Living off the Land</i></p> <p>SOL's: LS.1 b,c,g; LS.9 c,e; LS.11 b,c; LS.12 b,d,e; LS.14 c</p>