



First Quarter (23 Blocks)	Second Quarter (23 Blocks)	Third Quarter (24 Blocks)	Fourth Quarter (19 Blocks)
<p>AUGUST 28- NOVEMBER 3</p> <p>Introduction to the Earth Sciences (4 blocks) ES.1, ES.2</p> <ul style="list-style-type: none"> ➤ Density ➤ Measurement ➤ Graphing ➤ Safety in the Science Lab ➤ Science process skills <p>Unit 1 Maps (5 blocks) ES.1c-d</p> <ul style="list-style-type: none"> ➤ Topographic maps/profiles ➤ Latitude/Longitude ➤ Elevation <p>Unit 2 Cosmology (5 blocks) ES.13, ES.1, ES.2</p> <ul style="list-style-type: none"> ➤ Big Bang Theory ➤ Stellar evolution ➤ Galaxies; ➤ Hertzprung-Russell Diagram ➤ Science process skills (<i>infused</i>) <p>Unit 3 Characteristics of Earth and the Solar System (12 blocks) ES.3, ES.1, ES.2</p> <ul style="list-style-type: none"> ➤ Inner vs Outer Planets ➤ Seasons ➤ Tides ➤ Eclipses ➤ History of space exploration ➤ Minor members of the solar system ➤ The sun ➤ Science process skills (<i>infused</i>) 	<p>NOVEMBER 8 – JANUARY 26</p> <p>Unit 3 Characteristics of Earth and the Solar System (cont.)</p> <p>Unit 4 Minerals (2 blocks) ES.4a-b, ES.1, ES.2</p> <ul style="list-style-type: none"> ➤ Physical and chemical properties of minerals ➤ Uses of minerals ➤ Science process skills (<i>infused</i>) <p>Unit 5 Rocks (6 blocks) ES.5a-c, ES.1, ES.2</p> <ul style="list-style-type: none"> ➤ Origin and transformation of rocks ➤ Rock identification ➤ Classifying igneous, sedimentary, and metamorphic rocks; ➤ Rock cycle and plate tectonics of the geology of VA ➤ Science process skills (<i>infused</i>) <p>Unit 6 Geologic Processes (11 blocks) ES.7a-b, ES.10d, ES.1, ES.2</p> <ul style="list-style-type: none"> ➤ Geologic processes and resulting features ➤ Geologic history of Virginia ➤ Continental and oceanic lithosphere ➤ Plate Tectonics ➤ Earthquakes ➤ Volcanos ➤ Science process skills (<i>infused</i>) <p>Nov. 10- Veteran's Day Nov. 22 – 24 – Fall Break Dec. 22-Jan 1 – Winter Break Jan 15 – Martin Luther King's Birthday: No School Jan. 29 – Inservice/Workday</p>	<p>JANUARY 30– APRIL 13</p> <p>Unit 7 Historical Geology (4 blocks) ES.9, ES.1, ES.2</p> <ul style="list-style-type: none"> ➤ Principles of geology, including superposition, cross-cutting relationships, and index fossils ➤ Absolute vs relative dating ➤ Geologic time scale; and ➤ Science process skills (<i>infused</i>) <p>Unit 8 Freshwater Resources and Soil (5 blocks) ES.8, ES.1, ES.2</p> <ul style="list-style-type: none"> ➤ Karst topography ➤ Aquifers ➤ Hydrologic cycle ➤ Virginia watersheds ➤ Science process skills (<i>infused</i>) <p>Unit 9 Oceans (6 blocks) ES.10, ES.1, ES.2</p> <ul style="list-style-type: none"> ➤ Tides, waves, and currents ➤ El Nino ➤ Human impact on the oceans ➤ Science process skills (<i>infused</i>) <p>Unit 10 Evolution of the Earth's Atmosphere (6 blocks) ES.11, ES.1, ES.2</p> <ul style="list-style-type: none"> ➤ Atmospheric change over geologic time ➤ Atmospheric regulation mechanisms ➤ Atmospheric and climate change ➤ Science process skills (<i>infused</i>) <p>Unit 11 Weather (8 blocks) ES.12, ES.1, ES.2</p> <ul style="list-style-type: none"> ➤ Energy transfer ➤ Weather patterns <p>Feb. 19 – Presidents' Day: No School March 26-30 – Spring Break April 16 – Inservice/Workday</p>	<p>APRIL 17 – JUNE 8</p> <p>Unit 11 Weather (cont.)</p> <ul style="list-style-type: none"> ➤ Local and global winds ➤ Weather instruments ➤ Interpreting weather maps ➤ Weather prediction ➤ Climate ➤ Satellite technology ➤ Science process skills (<i>infused</i>) <p>Unit 12 Renewable and Nonrenewable Resources (2 blocks) ES.6, ES.1, ES.2</p> <ul style="list-style-type: none"> ➤ Virginia resources ➤ Fossil fuels ➤ Science process skills (<i>infused</i>) <p><i>Note: 72 blocks have been allotted for content instruction and 4 days for review for SOL assessment. Teachers should budget the remaining time for SOL assessment, remediation, and retesting as determined by the school. Time following SOL assessment should be used for reinforcement of Earth Science content.</i></p> <p>May 28 – Memorial Day: No School June 11-13 – Workdays</p>