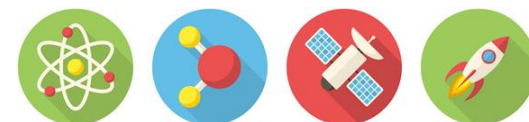


# Prince William County Schools

## Grade Three Science

### Suggested Pacing Guide

2019 – 2020



| FIRST QUARTER (47 DAYS)   | SECOND QUARTER (43 DAYS)  | THIRD QUARTER (43 DAYS)  | FOURTH QUARTER (47 DAYS)  |
|---|---|--|---|
| <p style="text-align: center;"><b>August 26-November 1</b></p> <p><b>Unit 1 Matter Interactions (4 weeks)</b><br/>3.3, 3.1</p> <ul style="list-style-type: none"> <li>➤ Solids and liquids mix with water in different ways</li> <li>➤ Many solids dissolve more easily in hot water than in cold water</li> <li>➤ Science &amp; <u>Engineering</u> Practices (<i>infused</i>)</li> </ul> <p><b>Unit 2 Force and Simple Machines (5 weeks)</b><br/>3.2, 3.1</p> <ul style="list-style-type: none"> <li>➤ <u>Multiple forces may act on an object</u></li> <li>➤ <u>The net force on an object determines how an object moves</u></li> <li>➤ <u>Simple machines increase or change the direction of a force</u></li> <li>➤ <u>Simple and compound machines have many uses</u></li> <li>➤ The differentiation and classification of six types of simple machines found in school at home</li> <li>➤ Science &amp; <u>Engineering</u> Practices (<i>infused</i>)</li> </ul> <p>Aug. 30, Sept. 2 – Labor Day: No School<br/>Oct. 14, Nov. 4 and 5 – In-service/Workdays</p> | <p style="text-align: center;"><b>November 6-January 24</b></p> <p><b>Unit 3 Adaptations (7 weeks)</b><br/>3.4, 3.1</p> <ul style="list-style-type: none"> <li>➤ Populations change and adapt over time for survival</li> <li>➤ Behavioral and physical adaptations of animals</li> <li>➤ <u>Fossils provide evidence about the environment and types of organisms that lived long ago</u></li> <li>➤ Science &amp; <u>Engineering</u> Practices (<i>infused</i>)</li> </ul> <p><b>Unit 4 Aquatic and Terrestrial Ecosystems (2 weeks)</b><br/>3.5, 3.1</p> <ul style="list-style-type: none"> <li>➤ Ecosystems are made of living and nonliving components of the environment</li> <li>➤ Relationships exist among organisms in an ecosystem</li> <li>➤ Science &amp; <u>Engineering</u> Practices (<i>infused</i>)</li> </ul> <p>Nov. 11 – Veterans’ Day: No School<br/>Nov. 27-29 – Thanksgiving Break<br/>Dec. 23-Jan 3 – Winter Break<br/>Jan 20 – Martin Luther King Birthday: No School<br/>Jan. 27 – In-service/Workday</p> | <p style="text-align: center;"><b>January 28-March 27</b></p> <p><b>Unit 4 Aquatic and Terrestrial Ecosystems continued... (5 weeks)</b><br/>3.5, 3.1</p> <ul style="list-style-type: none"> <li>➤ Food chains: producer, consumer, and decomposer</li> <li>➤ Herbivore, carnivore, omnivore, predator, and prey</li> <li>➤ Aquatic and terrestrial ecosystems</li> <li>➤ Science &amp; <u>Engineering</u> Practices (<i>infused</i>)</li> </ul> <p><b>Unit 5 Soil (4 weeks)</b><br/>3.6, 3.1</p> <ul style="list-style-type: none"> <li>➤ Soil provides support, nutrients, and habitats for organisms to live and for plants to grow</li> <li>➤ Soil takes a long time to form and should be conserved</li> <li>➤ Science &amp; <u>Engineering</u> Practices (<i>infused</i>)</li> </ul> <p>Feb. 17 – Presidents’ Day: No School<br/>March 30 – In-service/Workday</p> | <p style="text-align: center;"><b>March 31-June 12</b></p> <p><b>Unit 6 Earth’s Water (4 weeks)</b><br/>3.7, 3.1</p> <ul style="list-style-type: none"> <li>➤ The importance of water on Earth</li> <li>➤ Major sources of water on Earth</li> <li>➤ The Sun is the driving force of energy behind the water cycle (evaporation, condensation, and precipitation)</li> <li>➤ Science &amp; <u>Engineering</u> Practices (<i>infused</i>)</li> </ul> <p><b>Unit 7 Human Impact and Conservation (5 weeks)</b><br/>3.8, 3.1</p> <ul style="list-style-type: none"> <li>➤ Human activity affects the quality of air, water, and habitats</li> <li>➤ Water is limited and needs to be conserved</li> <li>➤ Natural occurrences affect ecosystems</li> <li>➤ Conservation of natural resources</li> <li>➤ Science &amp; <u>Engineering</u> Practices (<i>infused</i>)</li> </ul> <p>April 6-10 – Spring Break<br/>April 13 – In-service/Workday<br/>May 25 – Memorial Day: No School<br/>June 15 – Workday</p> |

#### Theme: Interactions in Our World

In third grade science, students continue their study of forces and matter by learning about simple machines and examining interactions of materials in water. They look at how plants and animals are constantly interacting with living and nonliving aspects of the environment, how adaptations satisfy life needs, and the importance of water, soil and the sun in the survival of plants and animals. Science and Engineering practices (3.1) should be incorporated as a part of inquiry-based instruction.

**Note: To ensure consistency countywide, schools are highly encouraged to adhere to the *sequence* of science content outlined above. The underlined content is new to third grade.**