

**Accomack County Public Schools
2022-2023
Fourth Grade Science Pacing Guide (2018 Standards)**

QUARTER ONE: What is our place in the solar system?								
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9
4.1			4.5			4.6		
<p>The student will demonstrate an understanding of scientific reasoning, logic, and the nature of science by planning and conducting investigations.</p> <p>Begin basic knowledge of the scientific process as well as identifying tools used in experiments.</p> <p>4.1/ 5.1 should be incorporated throughout the school year in every unit.</p>			<p>The student will investigate and understand that the planets have characteristics and a specific place in the solar system. Key ideas include:</p> <p>a) planets rotate on their axes and revolve around the sun;</p> <p>b) planets have characteristics and a specific order in the solar system; and</p> <p>c) the sizes of the sun and planets can be compared to one another.</p>			<p>The student will investigate and understand that there are relationships among Earth, the moon, and the sun. Key relationships include:</p> <p>a) the motions of Earth, the moon, and the sun;</p> <p>b) the causes for Earth's seasons;</p> <p>c) the causes for the four major phases of the moon and the relationship to the tide cycles; and</p> <p>d) the relative size, position, age and makeup of Earth, the moon, and the sun.</p>		
How does science impact our lives?			Where is our place in the solar system?			How do the sun & moon impact our place in the solar system?		

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QUARTER TWO: What is our place in the solar system?								
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9
4.2			4.3			4.7		
<p>4.2 The student will investigate and understand that plants and animals have structures that distinguish them from one another and play vital roles in their ability to survive.</p> <p>Key ideas include:</p> <p>a) the survival of plants and animals depends on photosynthesis;</p> <p>b) plants and animals have different structures and processes for obtaining energy; and</p> <p>c) plants and animals have different structures and processes for creating offspring.</p>			<p>The student will investigate and understand that organisms, including humans, interact with one another and with the nonliving components in the ecosystem.</p> <p>Key ideas include:</p> <p>a) interrelationships exist in populations, communities, and ecosystems;</p> <p>b) food webs show the flow of energy within an ecosystem;</p> <p>c) changes in an organism's niche and habitat may occur at various stages in its life cycle; and</p> <p>d) classification can be used to identify organisms.</p>			<p>The student will investigate and understand that the ocean environment has characteristics.</p> <p>Key characteristics include:</p> <p>a) geology of the ocean floor;</p> <p>b) physical properties and movement of ocean water; and</p> <p>c) interaction of organisms in the ocean.</p>		
How do plants obtain energy and reproduce in the solar system?			How do animals, plants, and the environment interact to maintain our place in the solar system?			What makes our oceans unique to the solar system?		

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QUARTER THREE: What is our place in the solar system?								
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9
4.4			4.8			Pacing adjustment Review all standards		
The student will investigate and understand that weather conditions and phenomena affect ecosystems and can be predicted. Key ideas include: a) weather measurements create a record that can be used to make weather predictions; b) common and extreme weather events affect ecosystems; and c) long term seasonal weather trends determine the climate of a region.			The student will investigate and understand that Virginia has important natural resources. Key resources include: a) watersheds and water; b) plants and animals; c) minerals, rocks, and ores; and d) forests, soil, and land.					
Does our place in the solar system influence our weather?			What is Virginia’s place in the solar system?			Review big question: “What is our place in the solar system?”		

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QUARTER FOUR: What is our place in the solar system?

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Pacing adjustment

Review all standards

Review big question:
“What is our place in the solar system?”