

Flagler County Grade 3 2022-2023 Scope and Sequence based on HMH Florida Science

Year at a glance: Please note that the map is based on a 180-day schedule.

HMH Unit	Benchmark/ Standards
Quarter 1: August 10, 2022- October 12, 2022	
HMH Unit 1: Investigating Questions	<p><u>SC.3.N.1.1</u> Raise questions about the natural world, investigate them individually and in teams through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.</p> <p><u>SC.3.N.1.6</u> Infer based on observation.</p> <p><u>SC.3.N.1.7</u> Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.</p> <p><u>SC.3.N.3.1</u> Recognize that words in science can have different or more specific meanings than their use in everyday language; for example, energy, cell, heat/cold, and evidence.</p> <p><u>SC.3.N.3.2</u> Recognize that scientists use models to help understand and explain how things work.</p> <p><u>SC.3.N.3.3</u> Recognize that all models are approximations of natural phenomena; as such, they do not perfectly account for all observations.</p>
Quarter 2: October 13, 2022- December 22, 2022	
HMH Unit 3: Earth and Stars HMH Unit 4: Properties of Matter	<p><u>SC.3.E.5.1</u> Explain that stars can be different; some are smaller, some are larger, and some appear brighter than others; all except the Sun are so far away that they look like points of light.</p> <p><u>SC.3.E.5.2</u> Identify the Sun as a star that emits energy; some of it in the form of light.</p> <p><u>SC.3.E.5.3</u> Recognize that the Sun appears large and bright because it is the closest star to Earth.</p> <p><u>SC.3.E.5.4</u> Explore the Law of Gravity by demonstrating that gravity is a force that can be overcome.</p> <p><u>SC.3.E.6.1</u> Demonstrate that radiant energy from the Sun can heat objects and when the Sun is not present, heat may be lost.</p> <p><u>SC.3.P.8.1</u> Measure and compare temperatures of various samples of solids and liquids.</p> <p><u>SC.3.P.8.2</u></p>

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	<p>Measure and compare the mass and volume of solids and liquids. <u>SC.3.P.8.3</u> Compare materials and objects according to properties such as size, shape, color, texture, and hardness. <u>SC.3.P.9.1</u> Describe the changes water undergoes when it changes state through heating and cooling by using familiar scientific terms such as melting, freezing, boiling, evaporation, and condensation.</p> <p>Unit also reinforces <u>SC.3.N.1.1</u> <u>SC.3.N.1.2</u> <u>SC.3.N.1.6</u> <u>SC.3.N.1.7</u></p>
Quarter 3: January 9, 2023- March 23, 2023	
<p>HMH Unit 5: Forms of Energy</p> <p>HMH Unit 6: Heat Sources</p> <p>HMH Unit 7: Plants and the Environment</p>	<p><u>SC.3.P.10.1</u> Identify some basic forms of energy such as light, heat, sound, electrical, and mechanical.</p> <p><u>SC.3.P.10.2</u> Recognize that energy has the ability to cause motion or create change.</p> <p><u>SC.3.P.10.3</u> Demonstrate that light travels in a straight line until it strikes an object or travels from one medium to another.</p> <p><u>SC.3.P.10.4</u> Demonstrate that light can be reflected, refracted, and absorbed.</p> <p><u>SC.3.P.11.1</u> Investigate, observe, and explain that things that give off light often also give off heat.</p> <p><u>SC.3.P.11.2</u> Investigate, observe, and explain that heat is produced when one object rubs against another, such as rubbing one's hands together.</p> <p><u>SC.3.L.14.1</u> Describe structures in plants and their roles in food production, support, water and nutrient transport, and reproduction.</p> <p><u>SC.3.L.14.2</u> Investigate and describe how plants respond to stimuli (heat, light, gravity), such as the way plant stems grow toward light and their roots grow downward in response to gravity.</p> <p>Unit also reinforces <u>SC.3.N.1.1</u> <u>SC.3.N.1.2</u> <u>SC.3.N.1.6</u> <u>SC.3.N.1.7</u></p>
Quarter 4: March 27, 2023- May 26, 2023	

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<p>HMH Unit 8: Classifying Plants and Animals</p> <p>HMH Unit 9: Living Things Change</p>	<p><u>SC.3.L.15.1</u> Classify animals into major groups (mammals, birds, reptiles, amphibians, fish, arthropods, vertebrates and invertebrates, those having live births and those which lay eggs) according to their physical characteristics and behaviors.</p> <p><u>SC.3.L.15.2</u> Classify flowering and nonflowering plants into major groups such as those that produce seeds, or those like ferns and mosses that produce spores, according to their physical characteristics.</p> <p><u>SC.3.L.17.1</u> Describe how animals and plants respond to changing seasons.</p> <p><u>SC.3.L.17.2</u> Recognize that plants use energy from the Sun, air, and water to make their own food.</p> <p>Unit also reinforces</p> <p><u>SC.3.N.1.1</u> <u>SC.3.N.1.3</u> <u>SC.3.N.1.4</u> <u>SC.3.N.1.6</u> <u>SC.3.N.1.7</u> <u>SC.3.N.3.2</u></p>
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