

Fourth Grade Science Curriculum Map 2020-21

Grading Period	Big Ideas	Standard	Skill	HMH Units
Quarter 1	The Practice of Science	SC.4.N.1.1	Ask questions about the natural world around you.	1, 2, 3
		SC.4.N.1.2 and 1.5	Compare observations made by others	*subject to change
		SC.4.N.1.3	Explain why science is always changing	
		SC.4.N.1.4	Provide reasonable answers and cite evidence to support your hypotheses	
		SC.4.N.1.6	Keep records that describe your observations	
	Theories, Laws, Hypotheses & Models	SC.4.N.2.1	Explain that science focuses on the natural world	
		SC.4.N.3.1	Explain 3-D, 2-D, and computer models	
Quarter 2	Earth in Space and Times	SC.4.E.5.1	Observe patterns of stars	
		SC.4.E.5.2	Describe the moon phases	*subject to change
		SC.4.E.5.3	Recognize that the Earth revolves and rotates	
		SC.4.E.5.4	The rotation of Earth (day and night) & the movements of the sun, moon, and stars are connected.	
	Earth Structures	SC.4.E.6.1	Identify the three categories of rocks	
		SC.4.E.6.2	Identify the physical properties of minerals	
		SC.4.E.6.3	Recognize that humans need resources found on Earth	
		SC.4.E.6.4	Know the difference between physical weathering & erosion.	
		SC.4.E.6.5	Investigate how technology and tools help humans, including resources available in Florida	
	Properties of Matter	SC.4.P.8.1	Measure and compare objects	
		SC.4.P.8.2	Identify properties of water	
		SC.4.P.8.3	Explore the law of conservation of mass	
		SC.4.P.8.4	Investigate and describe magnets	

Quarter 3	Changes in Matter	SC.4.P.9.1	Identify that changes occur (rusting, decaying, etc) in materials that result in different or new materials.	6,7,8 *subject to change
	Forms of Energy	SC.4.P.10.1	Observe and describe basic forms of energy	
		SC.4.P.10.2	Describe how energy has the ability to cause motion or create change.	
		SC.4.P.10.3	Explain that sound is produced by vibrating objects and that pitch depends on how fast or slow the object vibrates.	
		SC.4.P.10.4	Describe how moving water and air are sources of energy and can be used to move things.	
	Energy Transfer	SC.4.P.11.1	Recognize that heat flows from a hot object to a cool object and that heat flow may cause materials to change temp.	
		SC.4.P.11.2	Identify common materials that conduct heat well or poorly	
Quarter 4	Motion of Objects	SC.4.P.12.1	Recognize that an object in motion always changes its position and may change its direction.	9, 10, 11 *subject to change
		SC.4.P.12.2	Describe that the speed of an object is determined by the distance it travels in a unit of time and that objects can move at different speeds.	
	Heredity	SC.4.P.16.1	Identify reproduction in plants	
		SC.4.P.16.2	Explain that plant and animal characteristics are inherited some characteristic are affected by the environment.	
		SC.4.P.16.3	Recognize that animal behaviors may be shaped by heredity and learning.	
		SC.4.P.16.4	Compare and contrast the major stages in the life cycles of Florida plants and animals.	
	Interdependence	SC.4.P.17.1	Compare the seasonal changes in FL plants and animals to those in other regions.	
		SC.4.P.17.2	Explain that animals cannot make their own food.	
		SC.4.P.17.3	Trace the flow of energy from the sun through a food chain.	
		SC.4.P.17.4	Recognize ways that plants and animals can impact the environment.	