

Benchmark	Unit	Date Covered	Date Covered	Date Covered
SC.6.N.1.1 : Define a problem from the sixth grade curriculum, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigation of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	1			
SC.6.N.1.2 : Explain why scientific investigations should be replicable.	1			
SC.6.N.1.3: Explain the difference between an experiment and other types of scientific investigation, and explain the relative benefits and limitations of each.	1			
SC.6.N.1.4: Discuss, compare, and negotiate methods used, results obtained, and explanations among groups of students conducting the same investigation.	1			
SC.6.N.1.5: Recognize that science involves creativity, not just in designing experiments, but also in creating explanations that fit evidence. NOT ASSESSED	1			
SC.6.N.2.1: Distinguish science from other activities involving thought. NOT ASSESSED	1			
SC.6.N.2.2 : Explain that scientific knowledge is durable because it is open to change as new evidence or interpretations are encountered.	1			
SC.6.N.2.3: Recognize that scientists who make contributions to scientific knowledge come from all kinds of backgrounds and possess varied talents, interests, and goals. NOT ASSESSED	1			
SC.6.N.3.1 : Recognize and explain that a scientific theory is a well- supported and widely accepted explanation of nature and is not simply a claim posed by an individual. Thus, the use of the term theory in science is very different than how it is used in everyday life.	1			
SC.6.N.3.2 : Recognize and explain that a scientific law is a description of a specific relationship under given conditions in the natural world. Thus, scientific laws are different from societal laws.	1			
SC.6.N.3.3: Give several examples of scientific laws.	1			
SC.6.N.3.4: Identify the role of models in the context of the sixth grade science benchmarks. NOT ASSESSED	1			
Nature of Science: Unit 1				

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SC.6.E.6.1: Describe and give examples of ways in which Earth's				
surface is built up and torn down by physical and chemical	8			
weathering, erosion, and deposition.				
SC.6.E.6.2: Recognize that there are a variety of different landforms				
on Earth's surface such as coastlines, dunes, rivers, mountains,	8			
glaciers, deltas, and lakes and relate these landforms as they apply to	8			
Florida.				
SC.7.E.6.1: Describe the layers of the solid Earth, including the				
lithosphere, the hot convecting mantle, and the dense metallic liquid	6			
and solid cores.				
SC.7.E.6.2: Identify the patterns within the rock cycle and relate				
them to surface events (weathering and erosion) and sub-surface	6			
events (plate tectonics and mountain building).				
SC.7.E.6.5: Explore the scientific theory of plate tectonics by				
describing how the movement of Earth's crustal plates causes both	6			
slow and rapid changes in Earth's surface, including volcanic	0			
eruptions, earthquakes, and mountain building.				
SC.7.E.6.7: Recognize that heat flow and movement of material				
within Earth causes earthquakes and volcanic eruptions, and creates	6			
mountains and ocean basins.				
SC.7.E.6.3: Identify current methods for measuring the age of Earth				
and its parts, including the law of superposition and radioactive	7			
dating.				
SC.7.E.6.4: Explain and give examples of how physical evidence				
supports scientific theories that Earth has evolved over geologic time	7			
due to natural processes.				
SC.7.E.6.6: Identify the impact that humans have had on Earth, such				
as deforestation, urbanization, desertification, erosion, air and water	9			
quality, changing the flow of water.				

Earth Structures: Units 8, 6, 7, 9

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SC.6.E.7.4 : Differentiate and show interactions among the geosphere, hydrosphere, cryosphere, atmosphere, and biosphere.	10/11			
SC.6.E.7.9: Describe how the composition and structure of the atmosphere protects life and insulates the planet.	10			
SC.6.E.7.1: Differentiate among radiation, conduction, and convection, the three mechanisms by which heat is transferred through Earth's system.	10			
SC.6.E.7.5 : Explain how energy provided by the sun influences global patterns of atmospheric movement and the temperature differences between air, water, and land.	10/11			
SC.6.E.7.3: Describe how global patterns such as the jet stream and ocean currents influence local weather in measurable terms such as temperature, air pressure, wind direction and speed, and humidity and precipitation.	10/11			
SC.6.E.7.2 : Investigate and apply how the cycling of water between the atmosphere and hydrosphere has an effect on weather patterns and climate.	11			
SC.6.E.7.6: Differentiate between weather and climate.	11			
SC.6.E.7.7: Investigate how natural disasters have affected human life in Florida. NOT ASSESSED	11			
SC.6.E.7.8: Describe ways human beings protect themselves from hazardous weather and sun exposure. NOT ASSESSED	11			

Earth Systems and Patterns: Units 10 & 11

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Benchmark	Unit	Date Covered	Date Covered	Date Covered
SC.8.E.5.1: Recognize that there are enormous distances between		Covereu	Covered	Covereu
objects in space and apply our knowledge of light and space travel to	2			
understand this distance.				
SC.8.E.5.2: Recognize that the universe contains many billions of	2			
galaxies and that each galaxy contains many billions of stars.				
SC.8.E.5.3 : Distinguish the hierarchical relationships between planets and other astronomical bodies relative to solar system,	2/3			
galaxy, and universe, including distance, size, and composition.	215			
SC.8.E.5.5 : Describe and classify specific physical properties of				
stars: apparent magnitude (brightness), temperature (color), size, and	2			
luminosity (absolute brightness).				
SC.8.E.5.8: Compare various historical models of the Solar System,	3			
including geocentric and heliocentric.				
SC.8.E.5.4: Explore the Law of Universal Gravitation by explaining the role that gravity plays in the formation of planets, stars, and solar	3			
systems and in determining their motions.	5			
SC.8.E.5.6: Create models of solar properties including: rotation,				
structure of the Sun, convection, sunspots, solar flares, and	3			
prominences.				
SC.8.E.5.7: Compare and contrast the properties of objects in the				
Solar System including the Sun, planets, and moons to those of	3			
Earth, such as gravitational force, distance from the Sun, speed,				
movement, temperature, and atmospheric conditions. SC.8.E.5.9:Explain the impact of objects in space on each other				
including:				
1. the Sun on the Earth including seasons and gravitational				
attraction	4			
2. The Moon on the Earth, including phases, tides, and				
eclipses, and the relative position of each body.				
SC.8.E.5.11: Identify and compare characteristics of the				
electromagnetic spectrum such as wavelength, frequency, use, and	5			
hazards and recognize its application to an understanding of planetary images and satellite photographs.				
SC.8.E.5.10: Assess how technology is essential to science for such				
purposes as access to outer space and other remote locations, sample	_			
collection, measurement, data collection and storage, computation,	5			
and communication of information.				
SC.8.E.5.12: Summarize the effects of space exploration on the	5			
economy and culture of Florida. NOT ASSESSED				
Farth in Snace and Time: Units 2 3 4 & 5				

Earth in Space and Time: Units 2, 3, 4, & 5