

MIAMI-DADE COUNTY PUBLIC SCHOOLS
District Pacing Guide

GRADE 5

Course Code: 5020060

STRAND D: Processes That Shape the Earth

Pacing	Date(s)
13 Days	04-05-11 to 04-21-11

TOPIC XVII: Interactions among Water, Air, and Land

SUNSHINE STATE STANDARD(S)	ESSENTIAL CONTENT	OBJECTIVES	INSTRUCTIONAL TOOLS	NEXT GENERATION SUNSHINE STATE STANDARDS (Field Tested 2011)
<p>Standard 1 The student recognizes that processes in the lithosphere, atmosphere, and biosphere interact to shape the Earth.</p> <p>SC.D.1.2.2 The student knows that 75% of the surface of the Earth is covered by water.</p> <p>SC.D.1.2.3 The student knows that the water cycle is influenced by temperature, pressure, and the topography of the land.</p> <p>SC.H.1.2.1 SC.H.1.2.2 SC.H.1.2.4 SC.H.1.2.5 SC.H.2.2.1 SC.H.3.2.1 SC.H.3.2.2 SC.H.3.2.3 SC.H.3.2.4</p>	<p>A. Influences on the water cycle.</p> <ol style="list-style-type: none"> 1. temperature 2. pressure 3. topography <p>B. Steps in the water cycle</p> <ol style="list-style-type: none"> 1. evaporation 2. condensation 3. precipitation <ol style="list-style-type: none"> a. Rain b. Snow c. Sleet d. Hail 4. collection <p>C. Climate zones are affected by:</p> <ol style="list-style-type: none"> 1. Latitude 2. Elevations 3. Proximity to bodies of water <p>D. Scientific Inquiry</p> <ol style="list-style-type: none"> 1. Problem Statement 2. Hypothesis 3. Develop a plan 4. Identify variables <ol style="list-style-type: none"> a. Independent b. Dependent c. Constant 5. Collect and record data 6. Analyze data <ol style="list-style-type: none"> a. Graph b. Compare results 7. Interpret the data 8. Draw a conclusion 9. Communicate and explain results 	<ul style="list-style-type: none"> • Know that Earth is covered by 75% water. • Understand that water is continually moving and changing its form. • Identify major steps of the water cycle. • Compare and contrast weather and climate • Explain how weather data is collected and analyzed. • Recognize how air temperature, barometric pressure, humidity, wind speed, and direction, and precipitation determine the weather in a particular place and time. • Distinguish among the various forms of precipitation (rain, snow, sleet, and hail), making connections, to the weather in a particular place and time. • Compare and contrast causes and structures of severe weather. • Observe the weather, collect data, then analyze and communicate the results. 	<p>Core Textbook: TE Chapter 7, pp. 198-215; Chapter 8, pp. 225 -256</p> <p>Vocabulary: water cycle, evaporation, condensation, precipitation, collection, air temperature, atmosphere, barometric pressure, climate, humidity, wind speed, wind direction, precipitation, weather, precipitation,</p> <p>Technology: (see p. 2)</p> <p>Strategies: (see p. 2) Use the Five E's, Inquiry, Think/Pair/Share, Centers/Stations, Cooperative Learning Groups, Graphic Organizers (KWL)</p> <p>○ ELL: ○ Enrichment: ○ SPED:</p> <p>Assessment: (see p. 2) Teacher Observation, Portfolio Assessments, Lesson Check Point, Journal, Lab Report (Power Writing)</p> <p>Labs: (see p. 2) What is a Cloud? TE p. 216 How Does Pressure Affect an Object? TE p. 228 <i>Connect weather and climate objectives to the April 22, Earth Day activities.</i></p>	<p>SC.5.E.7.3 Recognize how air temperature, barometric pressure, humidity, wind speed, and direction, and precipitation determine the weather in a particular place and time.</p> <p>SC.5.E.7.4 Distinguish among the various forms of precipitation (rain, snow, sleet, and hail), making connections, to the weather in a particular place and time.</p> <p>SC.5.E.7.6 Describe characteristics (temperature and precipitation) of different climate zones as they relate to latitude, elevation, and proximity to bodies of water.</p>

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Supplemental Resources		
Content	Title	
Water and Weather	Chapter 7, 8	https://www.pearsonsuccessnet.com/snpapp/login/login.jsp If not registered, click on the register button. Enter the access code SFSCAL07FLEN05T and your school's zip code. Log in. Click on the Grade 5 Teacher's Edition.
Interaction between air, land and water	Water Science for Schools Lesson plan	http://floridastandards.org/Resources/PublicPreviewResource420.aspx http://ga.water.usgs.gov/edu/index.html
Weather	The Weather Channel Kids	http://www.theweatherchannelkids.com/
Weather	Internet for Classrooms i4c	http://www.internet4classrooms.com/science_elem_weather.htm
Water Cycle	Water Cycle	http://www.epa.gov/safewater/kids/flash/flash_watercycle.html
Gizmo	Pond Ecosystem	http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=664

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SUNSHINE STATE STANDARDS

SSS Benchmark	Description
Standard 1 The student uses the scientific processes and habits of mind to solve problems.	
SC.H.1.2.1	The student knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments. AA
SC.H.1.2.2	The student knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results. AA
SC.H.1.2.4	The student knows that to compare and contrast observations and results is an essential skill in science. (Assessed as H.1.2.2)
SC.H.1.2.5	The student knows that a model of something is different from the real thing, but can be used to learn something about the real thing. CS
Standard 2 The student understands that most natural events occur in comprehensible, consistent patterns.	
SC.H.2.2.1	The student knows that natural events are often predictable and logical. CS
Standard 3 The student understands that science, technology, and society are interwoven and interdependent.	
SC.H.3.2.1	The student understands that people, alone, or in groups, invent new tools to solve problems and do work that affect aspects of life outside of science. AA
SC.H.3.2.2	The student knows that data are collected and interpreted in order to explain an event or concept. (Assessed as H.1.2.2)
SC.H.3.2.3	The student knows that before a group of people build something or try something new, they should determine how it may affect other people (Assessed as H.3.2.1)
SC.H.3.2.4	The student knows that through the use of science processes and knowledge, people can solve problems, make decisions, and form new ideas. AA

**MIAMI-DADE COUNTY PUBLIC SCHOOLS
Instructional Focus Calendar**

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Date	Pacing guide Benchmark(s)	Data Driven Benchmark(s)	Activities	Assessment(s)	Strategies
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