Instructional Guide

Grade Level Sixth Grade **Subject Science** **School System Pickens County**

School Year 2011-2012

Time Period (Pacing – when)	State Assessment Correlations	Standards/ Components (Pacing – what)	Resources/ Activities (Pacing – how) Curricular Alignment	Date of Common Formative Assessment (Pacing – how well)	Mapping Comments (What works what needs adjustment
1st Six Weeks					
		6.1. B.1 Predicting local weather and weather patterns Examples: cold and warm fronts, high and low pressure areas 6.1.B.2 Describing the function of instruments and technology used to investigate Earth's weather, including barometers, thermometers, wind socks, weather vanes, satellites, radar, weather balloons, and rain	Glencoe Earth Science Chapter 16 pg. 470- 472 Glencoe Earth Science Chapter 1 pg. 15- 17 Chapter 15 Atmosphere Directed Reading pg. 15- 18 Enrichment WS pg. 26 - 28 Transparency Activity pg. 40- 42 Notetaking WS pg. 29- 31 Chapter 16 Weather Directed Reading pg. 19- 22 Enrichment WS pg. 30- 32 Transparency Activity pg. 44- 48 Notetaking WS pg. 33- 35 Chapter 17 Climate Directed Reading pg. 20 Enrichment WS pg. 28, 29, 30 Transparency Activity pg. 43- 46 Notetaking WS pg. 33- 35 www.earth.msscience.com		

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1st Six Weeks	Content Standard 7: Describe biotic and abiotic factors in the environment	6.3 Describe water and carbon biogeochemical cycles and their effects on Earth	Glencoe Earth Science Chapter 4, 15, and 17 Pg. 502, and 503 Chapter 4 Rocks Directed Reading pg. 15- 18 Enrichment WS pg. 27- 30 Transparency Activity pg. 43- 48 Notetaking WS pg. 31- 33 Chapter 15 Atmosphere Directed Reading pg. 15- 18 Enrichment WS pg. 26 - 28 Transparency Activity pg. 40- 42 Notetaking WS pg. 29- 31 Chapter 17 Climate Directed Reading pg. 20 Enrichment WS pg. 28, 29, 30 Transparency Activity pg. 43- 46 Notetaking WS pg. 33- 35 www.earth.msscience.com		

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1st Six Weeks	Content Standard 6: Describe evidence of species variation due to climate, changing landforms, interspecies interaction, and genetic mutation.	6.1a Identify global patterns of atmospheric movement including El Nino 6.1b Identify global patterns of atmospheric movement including the Gulf Stream 6.1c Identify global patterns of atmospheric movement including the jet stream 6.1d Identify global patterns of atmospheric movement including the Coriolis effect 6.1e Identify global patterns of atmospheric movement including global winds 6.1f Identify global patterns of atmospheric movement including influence of local weather	Glencoe Earth Science Chapter 6,16, and 17 Chapter 6 Views of Earth Directed Reading pg. 17, 18, 19, 20 Enrichment WS pg. 28, 29, 30 Transparency Activity pg. 43- 46 Notetaking WS pg. 31- 32 Chapter 16 Weather Directed Reading pg. 19- 22 Enrichment WS pg. 30- 32 Transparency Activity pg. 44- 48 Notetaking WS pg. 33- 35 Chapter 17 Climate Directed Reading pg. 20 Enrichment WS pg. 28, 29, 30 Transparency Activity pg. 43- 46 Notetaking WS pg. 33- 35 www.earth.msscience.com		

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1st Six Weeks	Content Standard 6: Describe evidence of species variation due to climate, changing landforms, interspecies interaction, and genetic mutation	6.2 Describe factors that cause changes to Earth's surface over time Examples: earthquakes, volcanoes, weathering, erosion, glacial erosion or scouring, deposition, water flow, tornadoes, hurricanes, farming and conservation, mining and reclamation, deforestation, and reforestation, waste disposal, global changes, greenhouse gases	Glencoe Earth Science Chapter 8, 11,12, and 17 Glencoe Earth Science Chapter 17 pg 501 Chapter 8 Erosional Forces Directed Reading pg. 15- 18 Enrichment WS pg. 26- 28 Transparency Activity pg. 40- 42 Notetaking WS pg. 29- 31 Chapter 17 Climate Directed Reading pg. 20 Enrichment WS pg. 28, 29, 30 Transparency Activity pg. 43- 46 Notetaking WS pg. 33- 35 www.earth.msscience.com		

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2nd Six Weeks					
	Content Standard 6: Describe evidence of species variation due to climate, changing landforms, interspecies interaction, and genetic mutation.	6.2. B.1 Comparing constructive and destructive natural processes and their effects on land formations Examples: constructive- volcanic, and mountain building processes, destructive- erosion by wind, water, and ice	Glencoe Earth Science Chapter 9 pg. 238- 241, 254		

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2nd Six Weeks		6.2. B.2 Distinguishing rock strata by geologic composition Examples: predicting relative strata by fossil depth, predicting occurrence of natural events by rock composition in a particular strata	Glencoe Earth Science Chapter 4 Glencoe Earth Science Chapter 10 pg. 273		

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2nd Six Weeks		6.6 Describe regions of the oceanic lithosphere including the continental shelf, continental slope, and abyssal plain	Glencoe Earth Science Chapter 10 pg. 280 Glencoe Earth Science Chapter 19 pg. 567- 568 Chapter 10 Plate Tectonics Directed Reading pg. 19- 22 Enrichment WS pg. 30- 32 Transparency Activity pg. 44- 46 Notetaking WS pg. 33- 35 Chapter 19 Oceanography Directed Reading pg. 19- 22 Enrichment WS pg. 30- 32 Transparency Activity pg. 46- 48 Notetaking WS pg. 33- 35 www.earth.msscience.com		

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2nd Six Weeks		6.4 Explain the plate tectonic theory Examples: using terminology such as continental drift, seafloor spreading, lava, magma, eruption, epicenter, focus, seismic wave, and subduction zone	Glencoe Science Chapter 10 and 11 Chapter 10 Plate Tectonics Directed Reading pg. 19- 22 Enrichment WS pg. 30- 32 Transparency Activity pg. 44- 46 Notetaking WS pg. 33- 35 Chapter 11 Earthquakes Directed Reading pg. 21- 24 Enrichment WS pg. 32- 34 Transparency Activity pg. 46- 48 Notetaking WS pg. 35- 37 www.earth.msscience.com		

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3rd Six Weeks					
		6.4. B.1.a Describing types of volcanoes 6.4. B.1.b Describing types of faults	Glencoe Earth Science Chapter 11 pg 308-309, and pg. 320 Chapter 11 Earthquakes Directed Reading pg. 21- 24 Enrichment WS pg. 32- 34 Transparency Activity pg. 46- 48 Notetaking WS pg. 35- 37 www.earth.msscience.com		

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3rd Six Weeks	Content Standard 1: Describe characteristics common to living things, including growth and development, reproduction, cellular organization, use of energy, exchange of gases, and response to the environment.	6.4. B.2 Determining energy release through seismographic data Example: using data from the Mercalli scale and the Ritcher scale	Glencoe Earth Science Chapter 11 pg. 304 and 309 Chapter 11 Earthquakes Directed Reading pg. 21- 24 Enrichment WS pg. 32- 34 Transparency Activity pg. 46- 48 Notetaking WS pg. 35- 37 www.earth.msscience.com		

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3rd Six Weeks	Content Standard 1: Describe characteristics common to living things, including growth and development, reproduction, cellular organization, use of energy, exchange of gases, and response to the environment.	6.8. a Describe how Earth's rotation cause varations in the heating and cooling of various locations on Earth 6.8.b Describe how Earth's tilt cause variations in the heating and cooling of various locations on Earth 6.8. c Describe how the distance from the equator cause variations in the heating and cooling of various locations on Earth	Glencoe Earth Science Chapter 15 pg. 430 and 431 Chapter 15 Atmosphere Directed Reading pg. 15- 18 Enrichment WS pg. 26- 28 Transparency Activity pg. 40- 42 Notetaking WS pg. 29- 31 www.earth.msscience.com		

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3rd Six Weeks		6.10 Describe components of the universe and their relationship to each other, including stars, planets, and their moons, solar systems, and galaxies	Glencoe Earth Science Chapter 16, 24, and 25 Chapter 16 Weather Directed Reading pg. 19- 22 Enrichment WS pg. 30- 32 Transparency Activity pg. 44- 48 Notetaking WS pg. 33- 35 Chapter 24 Solar System Directed Reading pg. 19- 22 Enrichment WS pg. 31- 34 Transparency Activity pg. 48- 51 Notetaking WS pg. 35- 38 Chapter 25 Stars and Galaxies Directed Reading pg. 19- 22 Enrichment WS pg. 31- 34 Transparency Activity pg. 48- 51 Notetaking WS pg. 35- 38 www.earth.msscience.com		

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4th Six Weeks					
		6.10. B.1 Identifying the impact of space exploration on innovations in technology Examples: MRI, microwave, satellite imagery, GPS	Glencoe Earth Science Chapter 16, 24 and 25 Chapter 16 Weather Directed Reading pg. 19- 22 Enrichment WS pg. 30- 32 Transparency Activity pg. 44- 48 Notetaking WS pg. 33- 35 Chapter 24 Solar System Directed Reading pg. 19- 22 Enrichment WS pg. 31- 34 Transparency Activity pg. 48- 51 Notetaking WS pg. 35- 38 Chapter 25 Stars and Galaxies Directed Reading pg. 19- 22 Enrichment WS pg. 31- 34 Transparency Activity pg. 48- 51 Notetaking WS pg. 35- 38 www.earth.msscience.com		

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4th Six Weeks		6.1. B.3 Using lines of latitude and longitude to locate areas of specific weather events	Glencoe Earth Science Chapter 17 pg. 484- 493 Chapter 17 Climate Directed Reading pg. 20 Enrichment WS pg. 28, 29, 30 Transparency Activity pg. 43- 46 Notetaking WS pg. 33- 35 www.earth.msscience.com		

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4th Six Weeks		6.1. B.4 Interpreting weather data through observations collected over time Example: calculating annual precipitation and average temperature	Glencoe Earth Science Chapter 17 pg. 484- 493 Chapter 17 Climate Directed Reading pg. 20 Enrichment WS pg. 28, 29, 30 Transparency Activity pg. 43- 46 Notetaking WS pg. 33- 35 www.earth.msscience.com		

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4th Six Weeks		6.5. a Describe layers of the oceanic hydrosphere including the pelagic zone 6.5.b Describe layers of the oceanic hydrosphere including benthic zone 6.5.c Describe layers of the oceanic hydrosphere including abyssal zone 6.5.d Describe layers of the oceanic hydrosphere including the intertidal zone	Glencoe Earth Science Chapter 19 pg. 542- 547 Chapter 19 Oceanography Directed Reading pg. 19- 22 Enrichment WS pg. 30- 32 Transparency Activity pg. 46- 48 Notetaking WS pg. 33- 35 www.earth.msscience.com		

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5th and 6th Six weeks					
		6.11. a Describe units used to measure distance including astronomical units 6.11. b Describe units used to measure distance in space including light years	Glencoe Earth Science Chapter 22 pg. 629, 638 Chapter 22 Exploring Space Directed Reading pg. 16- 18 Enrichment WS pg. 26- 28 Transparency Activity pg. 40- 44 Notetaking WS pg. 29- 31 www.earth.msscience.com		

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5th and 6th Six Weeks		6.9 Identify the moon's phases	Glencoe Earth Science Chapter 22-23 Chapter 22 Exploring Space Directed Reading pg. 15- 18 Enrichment WS pg. 26- 28 Transparency Activity pg. 41- 44 Notetaking WS pg. 29- 31 Chapter 23 Sun- Earth- Moon System Directed Reading pg. 17- 20 Enrichment WS pg. 28- 30 Transparency Activity pg. 44- 46 Notetaking WS pg. 31- 34 www.earth.msscience.com		

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5th and 6th Six Weeks		6.9. B.1.a Describing lunar eclipses 6.9. B.1.b Describing solar eclipses	Glencoe Earth Science pg. 667- 674 Transparency pg. 45 Directed Reading pg. 19 Enrichment pg. 29 www.earth.msscience.com		

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5th and 6th Six Weeks		6.10. B.2 Mapping seasonal changes in locations of constellations in the night sky	Glencoe Earth Science Chapter 23 pg. 663 Chapter 23 Sun- earth- Moon System Directed Reading pg. 17- 20 Enrichment WS pg. 28- 30 Transparency Activity pg. 44- 46 Notetaking WS pg. 31- 34 www.earth.msscience.com		

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5th and 6th Six Weeks		6.10. B.3 Describing the life cycle of a star Example: H-R Diagram	Glencoe Earth Science Chapter 25 pg. 734- 739 Chapter 25 Stars and Galaxies Directed Reading pg. 19- 22 Enrichment WS pg. 31- 34 Transparency Activity pg. 48- 51 Notetaking WS pg. 35- 38 www.earth.msscience.com		

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5th and 6th Six Weeks		6.7 Describe Earth's biomes Examples: aquatic biomes, grasslands, deserts, chaparrals, taigas, tundras	Need More Resources Alabama Coach Supplemental Resources JumpStart Supplemental Resources Test Prep Materials http://www.physicalgeography.net/fundamentals/9k.html http://www.edhelper.com/ReadingComprehension_54_40.html		

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5th and 6th Six Weeks	Content Standard 7: Describe biotic and abiotic factors in the environment.	6.7. B.1.a Identifying geographic factors that cause diversity in flora and fauna including elevation 6.7. B.1.b Identifying geographic factors that cause diversity in flora and fauna including location 6.7. B.1.c Identifying geographic factors that cause diversity in flora and fauna including climate	Need More Resources http://alex.state.al.us/index.php		