

Lee County Schools 6th Grade Science Pacing Guide

1st Nine Weeks (August - October) *Pacing guide may be adjusted according to AMSTI modules*

Alabama COS Standards	Performance Objective	Week	Topics	Vocabulary	Textbook/ Resources	AMSTI Modules	NAEP Correlations	Technology Based Lessons & Units
2. Describe factors that cause changes to Earth's surface over time.	*Compare constructive and destructive natural processes and their effects on land formations	Weeks 1-4	The Changing Earth	weathering, mechanical weathering, exfoliation, abrasion, chemical weathering, humus, soil erosion, soil profile.	McDougal Littell Earth Science Ch.1-10,13, 15,17,18,19,21	Cat. events - lessons 5,7,13,14,18 Earth in Space- lessons 12, 13, 17, 18		http://www.HoltMcDougal.com http://www.amsti.org http://www.alex.state.al.s/index.php http://www.thinkfinity.org

4. Explain the plate tectonic theory.	*Describe types of volcanoes and faults *Determine energy release through seismographic data	Weeks 5-9	The Changing Earth	inner core, outer core, mantle, crust, lithosphere, asthenosphere, tectonic plate, continental drift, Pangaea, mid-ocean ridge, convection, convection current, theory of plate tectonics, divergent boundary, convergent boundary, transform boundary, rift valley, magnetic reversal, hot spot, subduction, continental-continental collision, oceanic-oceanic subduction, oceanic-continental subduction	McDougal Littell Earth Science Ch.6,7,8,21	Cat.Events-Lessons 11, 12, 14, 16, 20 Earth in Space-lesson 14 Cat Events-Lesson 15 (faults only), 18, 19, 20 Earth in Space-lesson 13 Cat. Events-lesson 10 extension #1,3,12,13		http://www.HoltMcDougal.com http://www.amsti.org http://www.alex.state.al.s/index.php http://www.thinkfinity.org
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Lee County Schools 6th Grade Science Pacing Guide

3rd Nine Weeks (January - March) *Pacing guide may be adjusted according to AMSTI modules*

Alabama COS Standards	Performance Objective	Week	Topics	Vocabulary	Textbook/ Resources	AMSTI Modules	NAEP Correlations	Technology Based Lessons & Units
1. Identify global patterns of atmospheric movement, including El Nino, the Glf Stream, the jet stream, the Coriolis effect, and global winds that inflence local weather.	*Predicting local weather and weather patterns *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 gauges *Using lines of latitude and longitude to locate areas of specific weather events *Interpreting weather data through observations collected over time	Weeks 1-4	Earth's Weather	weather, wind, global wind, Coriolis effect jet stream, monsoon	McDougal Littell Earth Science Ch. 1,6,16,17,18	Cat. Events- Lessons 2 (coriolis effect), 5 (global winds, jet stream), 7 (Gulf stream, El Nino), 24 (jet stream) Cat. events- lessons 3-7,9 Cat. Events- lessons 4,6,9 Cat. Events- 4,6,7 Cat. Events- Lesson 6		http://www.HoltMcDougal.com http://www.amsti.org http://www.alex.state.al.s/index.php http://www.thinkfinity.org
8. Describe how Earth's rotation, Earth's axial tilt, and distance from the equator cause variations in the heating and cooling of various locations on Earth.		Weeks 5-9	Earth's Weather	surface currents, Coriolis effect, global winds, axis of rotation, revolution,	McDougal Littell Earth Science Ch. 16,20			http://www.HoltMcDougal.com http://www.amsti.org http://www.alex.state.al.s/index.php http://www.thinkfinity.org

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4th Nine Weeks (March - May) *Pacing guide may be adjusted according to AMSTI modules*

Alabama COS Standards	Performance Objective	Week	Topics	Vocabulary	Textbook/ Resources	AMSTI Modules	NAEP Correlations	Technology Based Lessons & Units
9. Identify the moon's phases.	*Describing lunar and solar eclipses *Relating effects of the moon's positions on oceanic tides	Weeks 1&2	Space Science	eclipse, umbra, penumbra	McDougal Littell Earth Science Ch. 13, 20			http://www.HoltMcDougal.com http://www.amsti.org http://www.alex.state.al.s/index.php http://www.thinkfinity.org
10. Describe components of the universe and their relationships to each other including stars, planets and their moons, solar systems, and galaxies.	*Identify the impact of space explorations on innovations in technology	Weeks 3,4,5,6,7	Space Science	fusion, convection, corona, sunspot, solar wind, quasar, Doppler effect, big bang	McDougal Littell Earth Science Ch.1,6,12,13,15, 17,19,21,22	Earth in Space-Lessons 1-19,21 Cat. Events-Lesson 1 Earth in Space-Lessons 20,21		http://www.HoltMcDougal.com http://www.amsti.org http://www.alex.state.al.s/index.php http://www.thinkfinity.org
11. Describe units used to measure distance in space, including astronomical units and light years.		Weeks 8&9	Space Science	light-year, parallax, nebula, main sequence, neutron star, black hole	McDougal Littell Earth Science Ch.21,22			http://www.HoltMcDougal.com http://www.amsti.org http://www.alex.state.al.s/index.php http://www.thinkfinity.org