Lee County Schools 4 <sup>th</sup> Grade Science Pacing Guide										
1 <sup>st</sup> Nine Weeks (August – October)										
Alabama COS Standards         Week         Topics/         Vocabulary         Textbook/         AMSTI Modules         NAEP         Technology Base										
Themes         Resources         Correlations         & Links										
Weeks       Physical       static electricity,       HS-Unit F Ch 14.2 <a href="http://www.amsti.or">http://www.amsti.or</a> Describe how       1 - 7       Science       current electricity,       HS-Unit F Ch 14.2       Ittp://www.amsti.or	<u>'g/</u>									
Sches the word to	tschool.com/									
parallel circuit, H3-Offit F Cir 14.4 AMSTI-EC Lessons										
sound and magnetic	<u>s/index.pnp</u>									
fields.     insulator, magnet, magnetic pole,     7	ity org/									
Identifying ways     magnetic field,     HS-Unit F Ch 14.1     AMSTI-EC Lessons	<u>ity.org/</u>									
to use and electromagnet, 10,11,112,13,14,1										
conserve generator, electric 5,16,17										
electrical energy motor, potential										
Identifying     energy, kinetic     HS-Unit F Ch 14.1     AMSTI-EC Lessons										
characteristics energy, 4,6,7,8,9,13,14,15,										
of parallel and hydroelectric 16,17										
series circuits power, geothermal										
Classifying     energy, solar energy HS-Unit F Ch 14.3 AMSTI-EC Lessons										
materials as 2,3,4,5,6,8,11,12,1										
conductors, 3,14,15,16,17										
nonconductors,										
and insulators										
of electricity HS-Unit F Ch 14.1 AMSTI-EC Lessons										
and heat       2,3,4,5,6,7,8,9,10,         Identifying       11,12,13,14,15,16,										
• Identifying relationships 11,12,13,14,15,16, 17										
among charge,										
current, and										
potential energy										
Identifying										
components of										
a circuit										

Week 8	Earth &	axis, orbit, moon,	HS-Unit D Ch 9.1			http://www.amsti.org/
	Space	phases				
	Science		HS-Unit D Ch 9.1			http://www.harcourtschool.com/
			HS-Unit D Ch 9.1			http://alex.state.al.us/index.php
						http://www.thinkfinity.org/
Week	Earth &	solar system, planet,	HS-Unit D Ch 9.2,			http://www.amsti.org/
9	Space	comet, star, sun,	9.3			
	Science	constellation,				http://www.harcourtschool.com/
		galaxy, universe	HS-Unit D Ch 9.2			
						http://alex.state.al.us/index.php
						http://www.thinkfinity.org/
	Week	Space ScienceWeek 9Earth & Space	Space SciencephasesPhasesphasesWeek 9Earth & SpaceSpacesolar system, planet, comet, star, sun,	Space SciencephasesHS-Unit D Ch 9.1HS-Unit D Ch 9.1HS-Unit D Ch 9.1HS-Unit D Ch 9.1Week 9Earth & Space Sciencesolar system, planet, comet, star, sun, constellation,HS-Unit D Ch 9.2, 9.3	Space SciencephasesHS-Unit D Ch 9.1HS-Unit D Ch 9.1HS-Unit D Ch 9.1Week 9Earth & Space Sciencesolar system, planet, comet, star, sun, constellation,HS-Unit D Ch 9.2, 9.3	Space SciencephasesHS-Unit D Ch 9.1HS-Unit D Ch 9.1HS-Unit D Ch 9.1Week 9Earth & Space Sciencesolar system, planet, comet, star, sun, constellation,HS-Unit D Ch 9.2, 9.3

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	2nd Nine Weeks (October - December)										
Alabama COS Standards	Week	Topics/ Themes	Vocabulary	Textbook/ Resources	AMSTI Modules	NAEP Correlations	Technology Based Lessons & Links				
Identify technological advances and other benefits of space exploration. • Listing highlights of space exploration, including satellites, manned moon missions, the unmanned Mars mission, and an inhabited space station • Identifying Alabama's contribution to the space industry	Weeks 1-4	Earth & Space Science	Global Positioning Satellite (GPS)	HS-leveled readers Alabama History Unit 5 Chapter 10	AMSTI-GLOBE AMSTI-MD Lessons 1,2,3,4,5,6,7,8,9,1 0,11,12,13,14,15,1 6,17		http://www.amsti.org/ http://www.harcourtschool.com/ http://alex.state.al.us/index.php http://www.thinkfinity.org/				

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	Weeks	Physical	position, motion,	HS-Unit F Ch 15.1,		http://www.amsti.org/
Describe effects of	5 - 9	Science	speed, velocity,	15.2		
friction on moving			acceleration, force,			http://www.harcourtschool.com/
objects.			inertia, gravity,	HS-Unit F Ch 15.3		
<ul> <li>Identifying</li> </ul>			gravitation, weight,			http://alex.state.al.us/index.php
momentum and			friction	HS-Unit F Ch 15.3		
inertia as						http://www.thinkfinity.org/
properties of						
moving objects						
<ul> <li>Identifying ways</li> </ul>						
to increase or						
decrease						
friction						

Lee County Schools 4 <sup>th</sup> Grade Science Pacing Guide 3rd Nine Weeks (January - March)									
Alabama COS Standards	Week	Topics/ Themes	Vocabulary	Textbook/ Resources	AMSTI Modules	NAEP Correlations	Technology Based Lessons & Links		
Describe geological features of Earth, including bodies of water, beaches, ocean ridges, continental shelves, plateaus, faults, canyons, sand dunes, and ice caps.	Week 1	Earth & Space Science	landform, mountain, topography	HS-Unit C Ch 7.1			http://www.amsti.org/ http://www.harcourtschool.com/ http://alex.state.al.us/index.php http://www.thinkfinity.org/		

	Weeks	Life	basic needs,	HS-Unit A Ch 3.1,	AMSTI-AS Lessons	http://www.amsti.org/
Describe the	2 - 5	Science	adaptation, instinct,	3.2	1,2,3,4,5,6,7,8,9,1	
interdependence of			hibernation,		0,12,13,14,15,16,1	http://www.harcourtschool.com/
plants and animals.			migration, learned		7	
<ul> <li>Describing</li> </ul>			behavior, direct			http://alex.state.al.us/index.php
behaviors and			development,			
body structures			metamorphosis,	HS-Unit A Ch 2.3	AMSTI-AS Lessons	http://www.thinkfinity.org/
that help			producer,		4,6,7,9,12,16,17	
animals survive			consumer,			
in particular			herbivore,			
habitats			carnivore,	HS-Unit B Ch 5.1,	AMSTI-all AS	
<ul> <li>Describing life</li> </ul>			omnivore,	5.2	Lessons	
cycles of various			decomposer,			
animals to			habitat, niche, food			
include			chain, prey,	HS-Unit A Ch 1.1,	AMSTI-AS Lessons	
incomplete and			predator, food web,	1.2, 1.3	4,5,6,9,10,11,12,1	
complete			energy pyramid,	HS-Unit A Ch 2.1,	6,17	
metamorphosis			organism,	2.2		
<ul> <li>Tracing the flow</li> </ul>			microscopic,			
of energy			bacteria, protest,			
through a food			vascular,			
chain			nonvascular, fungi,			
<ul> <li>Identifying</li> </ul>			vertebrate,			
characteristics			invertebrate, trait,			
of organisms,			heredity, gene, life			
including			cycle			
growth and						
development,						
reproduction,						
acquisition and						
use of energy,						
and response to						
environment						

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	Weeks	Life	vertebrate,	HS-Unit A Ch 1.3			http://www.amsti.org/
Classify animals as	6&9	Science	invertebrate,				
vertebrates or			environment,	HS-Unit A Ch 1.3	AMSTI-AS Lessons		http://www.harcourtschool.com/
invertebrates and as			ecosystem,	HS-Unit B Ch 4.1,	3,5,8		
endotherms or			population,	4.2			http://alex.state.al.us/index.php
ectotherms.			community, biotic,				
<ul> <li>Describing the</li> </ul>			abiotic, diversity,		AMSTI-AS Lessons		http://www.thinkfinity.org/
organization of			organism,	HS-Unit A Ch 1.1	4,6,9		
cells into			microscopic,				
tissues, organs,			bacteria, protist				
and organ							
systems							
<ul> <li>Describing the</li> </ul>							
grouping of							
organisms into							
populations,							
communities,							
and ecosystems							
Classifying							
common							
organisms into							
kingdoms,							
including							
Animalia,							
Plantae,							
Protista, Fungi,							
Archaebacteria,							
and Eubacteria.							

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	Lee County Schools 4 <sup>th</sup> Grade Science Pacing Guide									
	4th Nine Weeks (March - May)									
Alabama COS Standards	Week	Topics/ Themes	Vocabulary	Textbook/ Resources	AMSTI Modules	NAEP Correlations	Technology Based Lessons & Links			
Compare different pitches of sound produced by changing the size, tension, amount, or type of vibrant material. • Describing the relationship between the structure of the ear and hearing	Weeks 1-6	Physical Science	reflection, vibration, pitch, intensity, wavelength, frequency, amplitude, absorption, transmission, light, refraction	HS-Unit E Ch 12.1, 12.2, 12.3 HS-Unit E Ch 12.3 HS-Unit E Ch 13.1 HS-Unit E Ch 13.1	AMSTI-PS Unit 1 Lessons 1,2,3 AMSTI-PS Unit 2 Lessons 1,2,3 AMSTI-PS Unit 3 Lessons 1,2 AMSTI-PS Unit 3 Lesson 1 AMSTI-GLOBE		http://www.amsti.org/ http://www.harcourtschool.com/ http://alex.state.al.us/index.php http://www.thinkfinity.org/			
Recognize how light interacts with transparent, translucent, and opaque materials. • Predicting the reflection or absorption of light by various objects	Weeks 7 - 9	Physical Science	light, reflection, refraction	HS-Unit F Ch 13.1, 13			http://www.amsti.org/ http://www.harcourtschool.com/ http://alex.state.al.us/index.php http://www.thinkfinity.org/			