

1 st Nine Weeks					
	August 7, 2017 – October 6, 2017				
Labor Day Holida	• 1				
Progress Reports	-				
1 st 9 Weeks Assess	Tentative teaching				
Unit	Objective	Mississippi 7 th Grade Science Framework Objectives	Date(s)		
Scientific Inquiry	1b	1b. Discriminate among observations, inferences, and predictions. (DOK 1)	Week 1 August 7-11, 2017		
Scientific Inquiry	1c	 1c. Collect and display data using simple tools and resources to compare information (using standard, metric, and non-standard measurement). (DOK 2) Tools (e.g., English rulers [to the nearest one-sixteenth of an inch], metric rulers [to the nearest millimeter], thermometers, scales, hand lenses, microscopes, balances, clocks, calculators, anemometers, rain gauges, barometers, hygrometers, telescopes, compasses, spring scales, pH indicators, stopwatches) Types of data (e.g., linear measures, mass, volume, temperature, area, perimeter) Resources (e.g., Internet, electronic encyclopedias, journals, community resources, etc.) 	Week 1 August 7-11, 2017		
Scientific Inquiry	1d	1d. Organize data in tables and graphs and analyze data to construct explanations and draw conclusions. (DOK 3)	Week 2 August 14-18, 2017		
Scientific Inquiry	1e	1e. Communicate results of scientific procedures and explanations through a variety of written and graphic methods. (DOK 2)	Week 2 August 14-18, 2017		
Physical Science	2a & 2b	 2a. Identify patterns (e.g., atomic mass, increasing atomic numbers) and common characteristics (metals, nonmetals, gasses) of elements found in the periodic table of elements. (DOK 2) 2b. Categorize types of chemical changes, including synthesis and decomposition reactions, and classify acids and bases using the pH scale and indicators. (DOK 2) 	Week 3 August 21-25, 2017		
Physical Science	2a & 2b	2a. Identify patterns (e.g., atomic mass, increasing	Week 4		



		 atomic numbers) and common characteristics (metals, nonmetals, gasses) of elements found in the periodic table of elements. (DOK 2) 2b. Categorize types of chemical changes, including synthesis and decomposition reactions, and classify 	August 28- September 1, 2017
		acids and bases using the pH scale and indicators. (DOK 2)	
Physical Science	2d, 2e	 2d. Describe cause and effect relationships of electrical energy. (DOK 2) Energy transfers through an electric circuit (using common pictures and symbols) Electric motor energy transfers (e.g., chemical to electrical to mechanical motion) and generators 2e. Distinguish how various types of longitudinal and transverse waves (e.g., water, light, sound, seismic) transfer energy. (DOK 2) Frequency Wavelength Speed Amplitude 	Week 5 September 4-8, 2017
Physical Science	2c, 2f	 2c. Compare the force (effort) required to do the same amount of work with and without simple machines (e.g., levers, pulleys, wheel and axle, inclined planes). (DOK 2) 2f. Describe the effects of unbalanced forces on the speed or direction of an object's motion. (DOK 2) Variables that describe position, distance, displacement, speed, and change in speed of an object Gravity, friction, drag, lift, electric forces, and magnetic forces 2c. Compare the force (effort) required to do the 	Week 6 September 11-15, 2017
Physical Science	2c, 2f	 2c. Compare the force (effort) required to do the same amount of work with and without simple machines (e.g., levers, pulleys, wheel and axle, inclined planes). (DOK 2) 2f. Describe the effects of unbalanced forces on the speed or direction of an object's motion. (DOK 2) Variables that describe position, distance, 	Week 7 September 18 - 22, 2017



		 displacement, speed, and change in speed of an object Gravity, friction, drag, lift, electric forces, and magnetic forces 	
Review	1b-1c-	Reviewing Multiple Skills	Week 8
	1d-1e-	1b-1c-1d-1e-2a-2b-2d – 2e- 2f – 2g	September 25 - 29,
	2a-2b-		2017
	2c- 2d –		
	2e- 2f		
		Comprehensive 1 st 9 Weeks Assessment	Week 9
			October 2-6, 2017



		2 nd Nine Weeks	
		October 10, 2017 – December 20, 2017	
0 0	er 9, 10 nal Develop Issued: No iday Break Break: Dec	ment: October 10 vember 9 : November 20 – 24 ember 21-January 3, 2018	
Unit	Objective	Mississippi 7 th Grade Science Framework Objectives	Tentative teaching Date(s)
Scientific Inquiry	1a	1a. Design, conduct, and draw conclusions from an investigation that includes using experimental controls	Week 10 October 11-13, 2017
Scientific Inquiry	Review 1b-1e	 1b. Discriminate among observations, inferences, and predictions. (DOK 1) 1c. Collect and display data using simple tools and resources to compare information (using standard, metric, and non-standard measurement). (DOK 2) Tools (e.g., English rulers [to the nearest one-sixteenth of an inch], metric rulers [to the nearest millimeter], thermometers, scales, hand lenses, microscopes, balances, clocks, calculators, anemometers, rain gauges, barometers, hygrometers, telescopes, compasses, spring scales, pH indicators, stopwatches) Types of data (e.g., linear measures, mass, volume, temperature, area, perimeter) Resources (e.g., Internet, electronic encyclopedias, journals, community resources, etc.) 1d. Organize data in tables and graphs and analyze data to construct explanations and draw conclusions. (DOK 3) 1e. Communicate results of scientific procedures and explanations through a variety of written and 	Week 10 October 11-13, 2017



		graphic methods. (DOK 2)	
Scientific Inquiry	1f	1f. Explain how science and technology are reciprocal. (DOK 1)	Week 10 October 11-13, 2017
Life Science	3b	3b- Classify the organization and development of living things to include prokaryotic (e.g., bacteria) and eukaryotic organisms (e.g., protozoa, certain fungi, multicellular animals and plants). (DOK 2)	Week 11 October 16-20, 2017
Life Science	Зс	3c. Evaluate how health care technology has improved the quality of human life (e.g., computerized tomography [CT], artificial organs, magnetic resonance imaging [MRI], and ultrasound). (DOK 3)	Week 12 October 23-27, 2017
Life Science	3c	3c. Evaluate how health care technology has improved the quality of human life (e.g., computerized tomography [CT], artificial organs, magnetic resonance imaging [MRI], and ultrasound). (DOK 3)	Week 13 October 30- November 3, 2017
Life Science	3d	 3d. Compare and contrast reproduction in terms of the passing of genetic information (DNA) from parent to offspring. (DOK 2) Sexual and asexual reproduction Reproduction that accounts for evolutional adaptability of species Mitosis and meiosis Historical contributions and significance of discoveries of Gregor Mendel and Thomas Hunt Morgan as related to genetics 	Week 14 November 6-10, 2017
Life Science	3d	 3d. Compare and contrast reproduction in terms of the passing of genetic information (DNA) from parent to offspring. (DOK 2) Sexual and asexual reproduction Reproduction that accounts for evolutional adaptability of species Mitosis and meiosis Historical contributions and significance of discoveries of Gregor Mendel and Thomas Hunt Morgan as related to genetics 	Week 15 November 13-17, 2017



Life Science	3e	 3e. Compare and contrast how organisms obtain and utilize matter and energy. (DOK 1) How organisms use resources, grow, reproduce, maintain stable internal conditions (homeostasis) and recycle waste How plants break down sugar to release stored chemical energy through respiration 	Week 16 November 27- December 1, 2017
Life Science	3a	 3a. Assess how an organism's chances for survival are influenced by adaptations to its environment. (DOK 2) The importance of fungi as decomposers Major characteristics of land biomes (e.g., tropical rainforests, temperate rainforests, deserts, tundra, coniferous forests/taiga, and deciduous forests) Adaptations of various plants to survive and reproduce in different biomes 	Week 17 December 4-8, 2017
Review	1a-1f, 2c, 3a, 3b, 3c, 3d, and 3e	Reviewing Multiple Skills: 1a-1f, 2c, 3a, 3b, 3c, 3d, and 3e	Week 18 December 11 - 15, 2017
		Comprehensive 2 nd 9 Weeks Assessment	Week 19 December 18-20 , 2017



3 rd Nine Weeks					
January 4, 2018 – March 9, 2018 Report Cards Issued: January 11					
Report Cards Issued: January 11 Dr. MLK Holiday: January 15 Progress Reports Issued: February 8 President's Day Holiday: February 19 3rd 9 Weeks Assessments: March 6, 7, 8, 8, 9					
Objective	Mississippi 7 th Grade Science Framework Objectives	Tentative teaching Date(s)			
1a-1e Review	 1a. Design, conduct, and draw conclusions from an investigation that includes using experimental controls 1b. Discriminate among observations, inferences, and predictions. (DOK 1) 1c. Collect and display data using simple tools and resources to compare information (using standard, metric, and non-standard measurement). (DOK 2) Tools (e.g., English rulers [to the nearest one-sixteenth of an inch], metric rulers [to the nearest millimeter], thermometers, scales, hand lenses, microscopes, balances, clocks, calculators, anemometers, rain gauges, barometers, hygrometers, telescopes, compasses, spring scales, pH indicators, stopwatches) Types of data (e.g., linear measures, mass, volume, temperature, area, perimeter) Resources (e.g., Internet, electronic encyclopedias, journals, community resources, etc.) 1d. Organize data in tables and graphs and analyze data to construct explanations and draw conclusions. (DOK 3) 1e. Communicate results of scientific procedures 	Week 20 January 8-12, 2018			
	January 1 ssued: Fel oliday: Fel sments: M Objective 1a-1e	January 4, 2018 – March 9, 2018 ed: January 15 ssued: February 8 bliday: February 19 sments: March 6, 7, 8, & 9 Objective Mississippi 7th Grade Science Framework Objectives Ia-1e Review Ia-1e Ia. Design, conduct, and draw conclusions from an investigation that includes using experimental controls Ib. Discriminate among observations, inferences, and predictions. (DOK 1) Ic. Collect and display data using simple tools and resources to compare information (using standard, metric, and non-standard measurement). (DOK 2) • Tools (e.g., English rulers [to the nearest one-sixteenth of an inch], metric rulers [to the nearest millimeter], thermometers, scales, hand lenses, microscopes, balances, clocks, calculators, anemometers, rain gauges, barometers, hygrometers, telescopes, compasses, spring scales, pH indicators, stopwatches) • Types of data (e.g., linear measures, mass, volume, temperature, area, perimeter) • Resources (e.g., Internet, electronic encyclopedias, journals, community resources, etc.) Id. Organize data in tables and graphs and analyze data to construct explanations and draw conclusions. (DOK 3)			



		graphic methods. (DOK 2)	
Scientific Inquiry	1f	1f. Explain how science and technology are reciprocal. (DOK 1)	Week 20 January 8-12, 2018
Scientific Inquiry	1g	1g. Develop a logical argument to explain why scientists often review and ask questions about the results of other scientists' work. (DOK 3)	Week 20 January 8-12, 2018
Scientific Inquiry	1h	1h . Make relationships between evidence and explanations. (DOK 2)	Week 20 January 8-12, 2018
Earth and Space Science	4a, 4b	 4a. Justify the importance of Earth materials (e.g., rocks, minerals, atmospheric gases, water) to humans. (DOK 3) 4b. Explain the causes and effects of historical processes shaping the planet Earth (e.g., movements of the continents, continental plates, subduction zones, trenches, etc.) (DOK 2) 	Week 21 January 15-19, 2018
Earth and Space Science	4a, 4b	 4a. Justify the importance of Earth materials (e.g., rocks, minerals, atmospheric gases, water) to humans. (DOK 3) 4b. Explain the causes and effects of historical processes shaping the planet Earth (e.g., movements of the continents, continental plates, subduction zones, trenches, etc.) (DOK 2)mid-ocean ridges, within intra-plate regions, at island arcs, and along some continental edges Modern distribution of continents to the movement of lithospheric plates since the formation of Pangaea 	Week 22 January 22-26, 2018
Earth and Space Science	4d,4g	 4d. Conclude why factors, such as lack of resources and climate can limit the growth of populations in specific niches in the ecosystem. (DOK 2) Abiotic factors that affect population, growth, and size (quantity of light, water, range of temperatures, soil compositions) Cycles of water, carbon, oxygen, and 	Week 23 January 29-February 2, 2018



		 nitrogen in the environment Role of single-celled organisms (e.g., phytoplankton) in the carbon and oxygen cycles 4g. Research and evaluate the use of renewable and nonrenewable resources and critique efforts in the United States including (but not limited) to Mississippi to conserve natural resources and reduce global warming. (DOK 3) How materials are reused in a continuous cycle in ecosystems, (e.g., Mississippi Ethanol Gasification Project to develop and demonstrate technologies for the conversion of biomass to ethanol) Benefits of solid waste management (reduce, reuse, recycle) Conserving renewable and nonrenewable resources (e.g., The Recycling and Solid 	
		Waste Reduction Program in Jackson, MS)	
Earth and Space Science	4e	 4e. Research and develop a logical argument to support the funding of NASA's Space Programs. (DOK 3) Space exploration (e.g., telescopes, radio telescopes, X-ray telescopes, cameras, spectro-meters, etc.) Spinoffs (e.g., laser, pacemaker, dehydrated food, flame retardant clothing, global positioning system [GPS], satellite imagery, global weather information, diagnostic imagery) Mississippi's contributions to the space industry 	Week 24 February 5-9, 2018
Earth and Space Science	4f	 4f. Distinguish the structure and movements of objects in the solar system. (DOK 2) Sun's atmosphere (corona, chromosphere, photosphere and core) How phenomena on the sun's surface (e.g., sunspots, prominences, solar wind, solar flares) affect Earth (e.g., auroras, interference in radio and television communication) 	Week 25 February 12-16, 2018



Earth and Space Science	4c, 4h	 Eclipses relative to the position of the sun, moon, and Earth Contributions of Copernicus, Galileo, and Kepler in describing the solar system 4c. Describe the causes and effects of heat transfer as it relates to the circulation of ocean currents, atmospheric movement, and global wind patterns (e.g., trade winds, the jet stream). Provide examples of how these global patterns can affect local weather. (DOK 2) Characteristics of the Gulf Stream and other large ocean currents Effects on climate in Eastern North America and Western Europe Effects of heat transfer to the movement of air masses, high and low pressure areas, and fronts in the atmosphere 	Week 26 February 19-23, 2018
		4h . Predict weather events by analyzing clouds, weather maps, satellites, and various data. (DOK 3)	
Earth and Space	1a-1h,	Review of Multiple Skills:	Week 27
Science	4a, 4b,	1a-1h, 4a, 4b, 4c, 4d, 4e, 4f, 4g, and 4h	February 26-March 2,
	4c, 4d,		2018
	4e, 4f,		
	4g, and		
	4h		
		Comprehensive 3 rd 9 Weeks Assessment	March 6-9, 2018