6th GRADE SCIENCE PACING GUIDE 2020 - 2021

		FORCES AND MOTION		
1	Aug 17 - 21	Scientific Method Laboratory Procedures & Routine	Weekly Quiz	
2	Aug 24 - 28	6.P.1.1 Compare the properties of waves to the wavelike property of energy in earthquakes, light and sound.	Weekly Quiz	
3	Aug 31 - Sept 4	6.P.1.1 Compare the properties of waves to the wavelike property of energy in earthquakes, light and sound.	Weekly Quiz	
4	Sept 8 - 11	6.P.1.2 Explain the relationship among visible light, the electromagnetic spectrum, and sight.	Weekly Quiz	
5	Sept 14 - 18	6.P.1.3 Explain the relationship among the rate of vibration, the medium through which vibrations travel, sound and hearing.	Weekly Quiz	Project: MAPPING OF
6	Sept 21 - 25	6.P.1.3 Explain the relationship among the rate of vibration, the medium through which vibrations travel, sound and hearing.	Weekly Quiz	Project: MAK YOUR OWN SEISMOGRAF
	000000	MATTER: PROPERTIES AND CHANGE		
7		6.P.2.1 Recognize that all matter is made up of atoms and atoms of the same		
	Sept 28 - Oct 2	element are all alike, but are different from the atoms of other elements.	Weekly quiz	
8	Oct 5 - 9	6.P.2.1 Recognize that all matter is made up of atoms and atoms of the same element are all alike, but are different from the atoms of other elements.	Weekly quiz	
9	Oct 12 - 16	6.P.2.2 Explain the effect of heat on the motion of atoms through a description of what happens to particles during a change inphase.	Weekly quiz	
10	Oct 19 - 23	6.P.2.2 Explain the effect of heat on the motion of atoms through a description of what happens to particles during a change in phase.	Weekly quiz	
11	Oct 26 - 30	6.P.2.3 Compare the physical properties of pure substances that are independent of the amount of matter present including density, melting point, boiling point, and solubility to properties that are dependent on the amount of matter present to include volume, mass and weight.	Weekly quiz	
12	Nov 2 - 6	6.P.2.3 Compare the physical properties of pure substances that are independent of the amount of matter present including density, melting point, boiling point, and solubility to properties that are dependent on the amount of matter present to include volume, mass and weight.	Weekly quiz	Project: A : Model of a Atom
		ENERGY CONSERVATION AND TRANSFER	1	
13	Nov 9 - 13	6.P.3.1 Illustrate the transfer of heat energy from warmer objects to cooler ones using examples of conduction, radiation and convection and the effects that may result.	Weekly quiz	
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14		6.P.3.1 Illustrate the transfer of heat energy from warmer objects to cooler ones using examples of conduction, radiation and convection and the effects	Weekly quiz	
14	Nov 16 - 24	6.P.3.1 Illustrate the transfer of heat energy from warmer objects to cooler ones using examples of conduction, radiation and convection and the effects that may result. 6.P.3.2 Explain the effects of electromagnetic waves on various materials to	Weekly quiz	
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15	Nov 16 - 24	 6.P.3.1 Illustrate the transfer of heat energy from warmer objects to cooler ones using examples of conduction, radiation and convection and the effects that may result. 6.P.3.2 Explain the effects of electromagnetic waves on various materials to include absorption, scattering, and change in temperature 		INTERACTIVE
15	Nov 16 - 24 Nov 30 - Dec 4	 6.P.3.1 Illustrate the transfer of heat energy from warmer objects to cooler ones using examples of conduction, radiation and convection and the effects that may result. 6.P.3.2 Explain the effects of electromagnetic waves on various materials to include absorption, scattering, and change in temperature 6.P.3.3 Explain the suitability of materials for use in technological design based on a response to heat (to include conduction, expansion, and contraction) and 	Weekly quiz	INTERACTIVE POSTER ON I
15	Nov 16 - 24 Nov 30 - Dec 4 Dec 7 - 11	6.P.3.1 Illustrate the transfer of heat energy from warmer objects to cooler ones using examples of conduction, radiation and convection and the effects that may result. 6.P.3.2 Explain the effects of electromagnetic waves on various materials to include absorption, scattering, and change in temperature 6.P.3.3 Explain the suitability of materials for use in technological design based on a response to heat (to include conduction, expansion, and contraction) and electrical energy (conductors and insulators).	Weekly quiz	INTERACTIVE POSTER ON I
15 16	Nov 16 - 24 Nov 30 - Dec 4 Dec 7 - 11	6.P.3.1 Illustrate the transfer of heat energy from warmer objects to cooler ones using examples of conduction, radiation and convection and the effects that may result. 6.P.3.2 Explain the effects of electromagnetic waves on various materials to include absorption, scattering, and change in temperature 6.P.3.3 Explain the suitability of materials for use in technological design based on a response to heat (to include conduction, expansion, and contraction) and electrical energy (conductors and insulators). EARTH IN THE UNIVERSE 6.E.1.1 Explain how the relative motion and relative position of the sun, Earth	Weekly quiz Weekly quiz	INTERACTIVE POSTER ON H

20	Jan 19 - 22	6.E.1.2 Explain why Earth sustains life while other planets do not based on their properties (including types of surface, atmosphere and gravitational force) and location to the Sun.	Weekly quiz			
21	Jan 25 - 29	6.E.1.3 Summarize space exploration and the understandings gained from them.				
22	Feb 1 - 5	6.E.1.3 Summarize space exploration and the understandings gained from them.				
		EARTH SYSTEMS, STRUCTURES AND PROCESSES				
23	Feb 8 - 12	6.E.2.1 Summarize the structure of the earth, including the layers, the mantle and core based on the relative position, composition and density	Weekly Quiz			
24	Feb 15 - 19	6.E.2.1 Summarize the structure of the earth, including the layers, the mantle and core based on the relative position, composition and density	Weekly Quiz			
25	Feb 22 - 26	6.E.2.2 Explain how crustal plates and ocean basins are formed, move and interact using earthquakes, heat flow and volcanoes to reflect forces within the earth.	Weekly Quiz			
26	Mar 1 - 5	6.E.2.2 Explain how crustal plates and ocean basins are formed, move and interact using earthquakes, heat flow and volcanoes to reflect forces within the earth.	Weekly Quiz	Plate Tectonics		
27	Mar 8 - 12	6.E.2.3 Explain how the formation of soil is related to the parent rock type and the environment in which it develops.				
28	Mar 15 - 19	6.E.2.3 Explain how the formation of soil is related to the parent rock type and the environment in which it develops.	Weekly Quiz			
29	Mar 22 - 26	6.E.2.4 Conclude that the good health of humans requires: monitoring the lithosphere, maintaining soil quality and stewardship	Weekly Quiz			
		ECOSYSTEM				
30	April 6 - 9	6.L.2.1 Summarize how energy derived from the sun is used by plants to produce sugars photosynthesis) and is transferred within food chains and food webs (terrestrial and aquatic) from producers to consumers to decomposers.	Weekly Quiz			
31	April 12 - 16	6.L.2.2 Explain how plants respond to external stimuli (including dormancy and forms of tropism) to enhance survival in an environment.	Weekly Quiz			
32	April 19 - 23	6.L.2.3 Summarize how the abiotic factors (such as temperature, water, sunlight, and soil quality) of biomes (freshwater, marine, forest, grasslands, desert, Tundra) affect the ability of organisms to grow, survive and/or create their own food through photosynthesis.	Weekly Quiz			
33	April 26 - 30	6.L.2.3 Summarize how the abiotic factors (such as temperature, water, sunlight, and soil quality) of biomes (freshwater, marine, forest, grasslands, desert, Tundra) affect the ability of organisms to grow, survive and/or create their own food through photosynthesis.	Weekly Quiz			
		DEVIEW FOR NC FINALS				
May 3 - 19 REVIEW FOR NC FINALS						