Next Generation Science Standards									
MS-ESS1	Earth's Place in the Universe								
MS-ESS2	Earth's Systems								
MS-ESS3	Earth and Human Activity								
MS-ETS1	Engineering Design								
Technology									
SMART Board, Elmo, projector, computer, iPads, YouTube, lab equipment, Discovery Education									
Standards	Essential Questions	Content	Skills	Assessment	Resources				
Scientific	Scientific Method	Scientific Method	Scientific Method	Scientific Method	Scientific Method				
Method	How can the scientific	-Question and inferences	-Name and explain the steps	-Group work	-Elevate Science Earth by				
MS-ETS1	method be used to solve a	-Hypothesis	-Utilize past knowledge and	-Tests	Pearson (2019)				
	question or problem?	-Research and experiment	observations to form a		-Labs				
		-Data	question		-Interactive notebook				
		-Result analysis	-Develop a hypothesis						
		-Conclusion	-Gain background knowledge						
		-Lab safety	on topic through research						
			-Carry out a guided						
			experiment						
			-Identify constants within an						
			experiment						
			-Understand the difference						
			between dependent and						
			independent variables						
			-Construct an organized table						
			and graph to analyze data						
			-Analyze and communicate						
			hypothesis						
			Discuss the importance of						
			-Discuss the importance of						
			Model appropriate lab cofety						
			-would appropriate rab safety						
	question or problem?	-Research and experiment -Data -Result analysis -Conclusion -Lab safety	<ul> <li>observations to form a question</li> <li>Develop a hypothesis</li> <li>Gain background knowledge on topic through research</li> <li>Carry out a guided</li> <li>experiment</li> <li>Identify constants within an experiment</li> <li>Understand the difference</li> <li>between dependent and</li> <li>independent variables</li> <li>Construct an organized table and graph to analyze data</li> <li>Analyze and communicate results to prove or disprove hypothesis</li> <li>Discuss the importance of repeating experiment</li> <li>Model appropriate lab safety rules and procedures</li> </ul>		-Labs -Interactive notebook				

## Science 6<sup>th</sup> grade

Standards	Essential Questions	Content	Skills	Assessment	Resources
Earth's	Earth's Systems	Earth's Systems	Earth's Systems	Earth's Systems	Earth's Systems
Systems	How do Earth's processes	Lithosphere:	Lithosphere:	-Projects	-Elevate Science Earth by
MS-ESS2	interact with each other?	-Five layers of the Earth	-Compare and contrast the	-Tests	Pearson (2019)
MS-ESS3		-Tectonic processes	five layers		-Labs
		-Convection currents	-Explain the relationship		
		-Rock and mineral	between the layers and		
		relationships due to	tectonic processes		
		weathering and erosion	-Report evidence of tectonic		
		-Human impact	processes		
		-	-Analyze convection currents		
			-Understand the cycling of		
			Earth's materials		
			-Discuss how humans		
			positively and negatively		
			impact the lithosphere		
		Hydrosphere:	Hydrosphere:		
		-Water cycle: related to sun	-Describe how the water		
		and gravity	cycle is driven by the sun and		
		-Ocean water	gravity		
		-Human impact	-Explain how climate, waves,		
			and currents drive ocean		
			movement		
			-Discuss how humans		
			positively and negatively		
			impact the hydrosphere		
		Atmosphere:	Atmosphere:		
		-Layers	-Compare and contrast the		
		-Global and local winds	layers of the atmosphere		
		-Weather	-Differentiate between global		
		-Human impact	and local winds		
			-Discuss how fronts affect		
			weather		
			-Identify weather instruments		
			-Recognize symbols used on		
			weather maps		
			-Discuss how humans		
			positively and negatively		
			impact the atmosphere		

Standards	Essential Questions	Content	Skills	Assessment	Resources
The Universe	The Universe	The Universe	The Universe	The Universe	The Universe
MS-ESS1	How do fossils map Earth's history? How do celestial bodies interact/form?	-Geologic time scale -Lunar phases -Eclipses -Daily and seasonal patterns -Tides -Gravitational pull, orbits, formation of objects -Scale of objects -Milky Way Galaxy	<ul> <li>-Understand the geologic time scale</li> <li>-Discuss how fossils record geologic time</li> <li>-Model lunar phases</li> <li>-Distinguish between different types of eclipses</li> <li>-Describe the movements of the sun, moon, and Earth in relation to the rotation, revolution, and seasons</li> <li>-Understand how planets were formed</li> <li>-Interpret data to understand the scale of objects in the solar system</li> <li>-Understand Earth's cosmic address</li> </ul>	-Group work -Projects -Tests	-Elevate Science Earth by Pearson (2019) -Labs -Models
Earth and Human Activity MS-ESS3	Earth and Human Activity How do Earth and humans interact and affect each other?	Earth and Human Activity -Renewable vs. non- renewable resources -Alternative energy resources -Global climate change	Earth and Human Activity -Distinguish between renewable and non- renewable resources -Investigate alternative energy resources -Research the impact of global climate change	Earth and Human Activity -Project: Off the Grid -Group work	<b>Earth and Human Activity</b> <i>-Elevate Science Earth</i> by Pearson (2019)