•	Science, Earth Science and Physics, 21st Century Skills	Exhibits	Be an RFI Detective	Explore the solar system	Hands On Universe	Radio Astronomer for a Day	StarLab
Nature of Science							
SC.O.4.1.01	explain how new discoveries lead to changes in scientific knowledge.	₩			\Rightarrow	\Rightarrow	₩
	use scientific instruments, technology and everyday materials to		٠		٠	٠	
SC.O.4.1.07, SC.O.1.08, SC.O.PS.1.4	investigate the natural world.		☆	N.L.	☼	\(\)	
SC.O.4.1.09	construct a hypothesis when provided a problem.		☆	₩		☆-	₩
SC.O.4.1.11	interpret data presented in a table, graph, or diagram	☆			☆	\Rightarrow	
SC.O.4.1.12, SC.O.1.06, SC.O.PS.1.2,	draw and support conclusions, make predictions and inferences based on	**	**	**	*	*	ł
SC.O.ES.1.8, SC.O.P.1.8	patterns of evidence. apply mathematical skills and use metric units in measurements and	☼	☆	☆	☆	☆	
SC.O.4.1.13	calculations.	₩			☆	₩	ł
56.61.11115	realize that scientists formulate and test their explanations of nature using	711				711	
SC.O.1.01	observation and experiments.	\Rightarrow	\Rightarrow		\Rightarrow	\Rightarrow	ł
	recognize scientific knowledge is subject to modification as new scientific	, Le			, La	s La	
SC.O.1.02	information challenges current explanations.	☼			☼	☆	<u> </u>
SC.O.1.05	cooperate and collaborate to ask questions, design and conduct investigations to find answers and solve problems.		₩		₩	☆	
	apply skepticism, careful methods, logical reasoning and creativity in		X		X	X	
SC.O.1.07	investigating the observable universe.					₩	
SC.O.1.10, SC.O.PS.1.3, SC.O.ES.1.7,	utilize experimentation to demonstrate scientific processes and thinking					- 1 -	
SC.O.P.1.7	skills .				\Rightarrow	\Diamond	<u> </u>
	construct and use charts, graphs and tables to organize, display, interpret,				∀	}	
SC.O.1.11	analyze and explain data.				☆	☆	<u> </u>
SC.O.1.12	use inferential reasoning to make logical conclusions from collected data.	**	₩		₩	₩	
	use interestinal reasoning to make regions conclusions from concered data.	~	~		~	~	-
Contant Standards							
Content Standards							
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SC.0.4.2.17, SC.O.P.2.11	examine types and properties of waves	*			\1,		\1.
SC.0.4.2.30	identify the sun as a star.	☼			☆		\(\bar{\pi}\)
SC.0.4.2.32	describe and explain the planets' orbital paths.						\Rightarrow
SC.O.6.2.15	investigate the properties of the electromagnetic spectrum	₩	☆		☆		
50 0 6 2 4 7 50 0 5 2 4 5	describe links and according to the control of the other disc.	> +<					
SC.O.6.2.17, SC.O.P.2.12	describe light and sound in terms of longitudinal or transverse waves.	☼			₩.	↓	
SC.O.6.2.20	correlate the relationship of mass to gravitational force.				☼	☆	
SC.O.6.2.27	recognize the phases of the moon.			☼			
SC.O.6.2.28	investigate models of earth-moon-sun relationships (e.g., gravity, time, or			₩			
	tides).			꾸			
SC.O.6.2.29	compare the earth's tilt and revolution to the seasonal changes.			₩	₩		
	interpret and illustrate changes in waves as they encounter various						
SC.O.7.2.20	mediums (e.g., mirrors, or lenses).	₩					
SC.O.7.2.33	trace the life cycle of a star.	\Rightarrow			\Rightarrow		\Rightarrow

SC.O.8.2.19, SC.O.P.2.13	explain the Doppler effect	☆				\(\Delta\)	
SC.O.PS.2.15	conduct experiments to verify the inverse square relationship.				☼	₩	
SC.O.PS.2.19	differentiate between transverse and longitudinal waves.	☆					
SC.O.PS.2.25	investigate theories for the origin and configuration of the solar system.			☆			
SC.O.ES.2.25	use various wavelengths of the EM spectrum to investigate the observable universe.	☼	\(\Phi\)	·	\(\)	☆	
SC.O.ES.2.22	apply Newton's Law of Universal Gravitation to the motion of celestial objects				₩	\(\Delta\)	
SC.O.P.2.6	evaluate the conservation of energy and momentum	☼			☼		
Application of Science Standard	ds						
SC.0.4.3.02	create models as representations of real things.			☆			
SC.0.4.3.08	recognize that a solution to one scientific problem often creates new problems.		✡				
SC.O.4.1.03, SC.O.5.3.07, SC.O.8.3.05,	explore the connections between science, technology, society and career						
SC.O.ES.3.5	opportunities.	\Rightarrow	\Rightarrow		\Rightarrow	\(\Delta\)	
SC.O.8.3.06, SC.O.PS.1.7, SC.O.P.3.6	given a current science-technology-societal issue, construct and defend potential solutions.		☼				
Standards for 21st Century Lea	rning						
Standard 1: Information and Communication Skills	access, analyze, manage, integrate, evaluate, and create information in a variety of forms using appropriate technology skills and communicate that information in an appropriate oral, written, or multimedia format.	☆			☆	☼	
Standard 2: Thinking and Reasoning Skills	ability to explore and develop new ideas, to intentionally apply sound reasoning processes and to frame, analyze and solve complex problems using appropriate technology tools				₩	☼	
Standard 3: Personal and Workplace Skills	take the initiative to plan and execute tasks; and interact productively as a member of a group.				₩	₩	