

<b>Standards Grades 4-8, Physical Science, Earth Science and Physics, 21st Century Skills</b>		<b>Exhibits</b>	<b>Be an RFI Detective</b>	<b>Explore the solar system</b>	<b>Hands On Universe</b>	<b>Radio Astronomer for a Day</b>	<b>StarLab</b>
<b>Nature of Science</b>							
SC.O.4.1.01	explain how new discoveries lead to changes in scientific knowledge.	☀			☀	☀	☀
SC.O.4.1.07, SC.O.1.08, SC.O.PS.1.4	use scientific instruments, technology and everyday materials to investigate the natural world.		☀		☀	☀	
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...	☀			☀	☀	
SC.O.4.1.12, SC.O.1.06, SC.O.PS.1.2, SC.O.ES.1.8, SC.O.P.1.8	draw and support conclusions, make predictions and inferences based on patterns of evidence.	☀	☀	☀	☀	☀	
SC.O.4.1.13	apply mathematical skills and use metric units in measurements and calculations.	☀			☀	☀	
SC.O.1.01	realize that scientists formulate and test their explanations of nature using observation and experiments.	☀	☀		☀	☀	
SC.O.1.02	recognize scientific knowledge is subject to modification as new scientific information challenges current explanations.	☀			☀	☀	
SC.O.1.05	cooperate and collaborate to ask questions, design and conduct investigations to find answers and solve problems.		☀		☀	☀	
SC.O.1.07	apply skepticism, careful methods, logical reasoning and creativity in investigating the observable universe.					☀	
SC.O.1.10, SC.O.PS.1.3, SC.O.ES.1.7, SC.O.P.1.7	utilize experimentation to demonstrate scientific processes and thinking skills .				☀	☀	
SC.O.1.11	construct and use charts, graphs and tables to organize, display, interpret, analyze and explain data.				☀	☀	
SC.O.1.12	use inferential reasoning to make logical conclusions from collected data.	☀	☀		☀	☀	
<b>Content Standards</b>							
SC.O.4.2.17, SC.O.P.2.11	examine types and properties of waves	☀					
SC.O.4.2.30	identify the sun as a star.	☀			☀		☀
SC.O.4.2.32	describe and explain the planets' orbital paths.						☀
SC.O.6.2.15	investigate the properties of the electromagnetic spectrum	☀	☀		☀		
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).			☀			
SC.O.6.2.29	compare the earth's tilt and revolution to the seasonal changes.			☀	☀		
SC.O.7.2.20	interpret and illustrate changes in waves as they encounter various mediums (e.g., mirrors, or lenses).	☀					
SC.O.7.2.33	trace the life cycle of a star.	☀			☀		☀

