

PRESCOTT UNIFIED SCHOOL DISTRICT
2015-2016 District Instructional Guide
Date Revised

Grade Level: High School	Subject: Integrated Science	Time: Full Year	Core Text: Pearson Prentice Hall: Physical Science: With Earth and Space Science
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Time	Unit/Topic	Standards	Assessments
Q1 Week 1	Classroom Protocol	S1C2PO1 Demonstrate safe and ethical procedure (e.g., use and care of technology, materials, organisms) and behavior in all science inquiry.	
Weeks 2-5	The Solar System	S6C3PO2 Describe the characteristics, location, and motion of the various kinds of objects in our solar system, including the Sun, planets, satellites, comets, meteors, and asteroids. S6C3PO3 Explain the phases of the Moon, eclipses (lunar and solar), and the interaction of the Sun, Moon, and Earth (tidal effect).	
Weeks 6-8	Exploring the Universe	S6C4PO2 Describe the fusion process that takes place in stars. S6C4PO3 Analyze the evolution of various types of stars using the Hertzsprung-Russell (HR) diagram. S6C4PO4 Compare the evolution (life cycles) of stars of different masses (low and high mass). S6C4PO6 Explain the evolution and life cycles of galaxies. 9-10.RST.5.	

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		Analyze the structure of the relationships among concepts in a text, including relationships among concepts in a text, including relationships among key terms (e.g., force, friction, reaction force, and energy).	
Q2 Weeks 1-7	Earth's Interior	<p>S6C1PO1 Identify ways materials are cycled within the Earth system (i.e., water cycle, rock cycle).</p> <p>S6C1PO2 Demonstrate how dynamic processes such as weathering, erosion, sedimentation, metamorphism, and orogenesis relate to redistribution of materials within the Earth system.</p> <p>S6C1PO3 Explain how the rock cycle is related to plate tectonics.</p> <p>S6C2PO4 Demonstrate the relationship between the Earth's internal convection heat flow and plate tectonics.</p> <p>S6C2PO5 Demonstrate the relationships among earthquakes, volcanoes, mountain ranges, mid-oceanic ridges, deep sea trenches, and tectonic plates.</p> <p>S6C2PO6 Distinguish among seismic S, P, and surface waves.</p> <p>S6C2PO7 Analyze the seismic evidence (S and P waves) used to determine the structure of the Earth.</p> <p>ET.S3C1PO2 Evaluate diverse information sources.</p>	
Week	Earth's History	S6C3PO4	

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8		<p>Interpret a geologic time scale. S6C3PO5 Distinguish between relative and absolute geologic dating techniques.</p>	
Q3 Weeks 1-3	Earth's Surface	<p>S6C1PO1 Identify ways materials are cycled within the Earth system (i.e., carbon cycle, water cycle, rock cycle). S6C1PO2 Demonstrate how dynamic processes such as weathering, erosion, sedimentation, metamorphism, and orogenesis relate to redistribution of materials within the Earth system. S6C1PO5 Describe factors that impact current and future water quantity and quality including surface, ground, and local water issues. 9-10.WHST.9. Draw evidence from informational texts to support analysis, reflection, and research.</p>	
Weeks 4-8	The Electromagnetic Spectrum and Light	<p>S5C5PO7 Explain the relationship between the wavelength of light absorbed or released by an atom or molecule and the transfer of a discrete amount of energy.</p>	
Q4 Weeks 1-8	Weather and Climate	<p>S6C2PO9 Explain the effect of heat transfer on climate and weather. S6C2PO12 Describe the conditions that cause severe weather (e.g., hurricanes, tornadoes, thunderstorms). S6C2PO15 List the factors that determine climate (e.g., altitude, latitude, water bodies, precipitation, prevailing winds, topography). ET.S6C1PO5</p>	

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		Investigate and evaluate physical risks of using digital technology.	
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