Grade Level: High School	Subject: Beginning		Core Text: Earth Science,	
	Integrated	1	2017, Heinbaugh and	l
			Winslow	

Time	Topic	Content (Nouns)	Skills (Verbs)	Standards	Assessments
Week 1	Intro to Science	Lab Safety Rules	TSW (The student will) differentiate between safe and unsafe lab procedures. Analyze concepts in text and determine the meaning of symbols and key terms. TSW demonstrate safe and ethical procedure (e.g., use and care of technology, materials, organisms) and behavior in all science inquiry.	S1C2 P01 S1C2 P02 ELA 9-10 RST 10.4, 10.5, 10.10	Return Signed Lab Safety Contract
		Scientific Method	TSW explain a hypothesis. Describe how a hypothesis is tested. Current Science Topic, cite evidence determine central idea and summarize TSW demonstrate safe and ethical procedure (e.g., use and care of technology, materials, organisms) and behavior in all science inquiry.	S1C1, S1C2, S1C3 S2C2 ELA 9-10 RST 10.1, 10.2, 10.8 S1C1 P01-4 ELA 9-10 RST 10.3	

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Weeks 2 - 5	The Solar System	The Moon and the Sun	TSW explain the phases of the Moon, eclipses (lunar and solar), and the interaction of the Sun, Moon, and Earth (tidal	S6C3PO3	
		The Planets	TSW explain the order, composition, and relation of planets to one another.	S6C3PO2 S6C3PO3	
			TSW describe the scientific Theory of the origin of the solar system (solar nebular hypothesis).	S6C3P01	
			Describe the Big Bang Theory as an explanation of the origin of the universe.	S6C4PO1	
		Comets, Asteroids, Meteors	TSW 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.	S6C3PO2 S6C3PO3	Unit Exam
Weeks 6-8	The Universe outside our Solar System	Electromagnetic Spectrum	TSW 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.	S5C5PO7	

The Celestial sphere	TSW explain the relationships and locations of stars in our celestial sphere with proper scientific verbiage.	S5C5PO7	
H-R Diagram	TSW describe the fusion process that takes place in stars. TSW analyze the evolution of various types of stars using the Hertzsprung-Russell (HR) diagram.	S6C4PO2 S6C4PO3	
Life of a Star and the Sun	TSW compare the evolution (life cycles) of stars of different masses (low and high mass).	S6C4PO4	
	TSW will explain the formation of the light elements in stars and the heavier elements in Supernova explosions.	S6C4P05	
	TSW explain the evolution and life cycles of galaxies.	S6C4PO6	Unit Exam

Grade Level: High School	Subject: Beginning Integrated	Time: Semester 1/ Quarter 2	2017, Heinbaugh and
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Time	Topic	Content (Nouns)	Skills (Verbs)	Standards	Assessments
Weeks 1 - 5	Dynamic Earth	Earth's Interior	TSW describe the composition and layers of Earth's layers including the crust, mantle and core; describe the flow of energy to and from the earth.	S6C2PO1	
			TSW demonstrate the relationship between the Earth's internal convection heat flow and plate tectonics.	S6C2PO4	
		Minerals and Identification	TSW classify rocks and minerals by the following: grain, color, texture and hardness	S6C1PO1	
			TSW identify ways materials are cycled within the Earth system (i.e., water cycle, rock cycle).	S6C1PO1	Unit Exam
		Rocks and the Rocks Cycle	TSW identify ways materials are cycled within the Earth system (i.e., water cycle, rock cycle).	S6C1PO1	
			TSW classify rocks and	S6C1PO1	

	minerals by the following: grain, color, texture and hardness TSW explain how the rock cycle is related to plate tectonics. TSW demonstrate how dynamic processes such as weathering, erosion, sedimentation, metamorphism, and orogenesis relate to redistribution of materials within the Earth system	S6C1PO3 S6C1PO2	
Earth's History	TSW interpret a geologic time scale.	S6C3PO4	
	TSW distinguish between relative and absolute geologic dating techniques.	S6C3PO5	
	TSW describe how life on Earth has influenced the evolution of Earth's systems.	S6C3PO7	
	TSW sequence major events in the Earth's evolution (mass extinctions, glacial episodes using relative and absolute dating.	S6C3PO8	

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			Analyze patterns in the fossil record related to the theory of organic evolution.	S6C3PO9	Unit Exam
Weeks 6-8	Forces that Shape Earth's Surface	Plate Tectonics	TSW demonstrate the relationships among earthquakes, volcanoes, mountain ranges, mid-oceanic ridges, deep sea trenches, and tectonic plates.	S6C2PO5	
			TSW demonstrate the relationship between the Earth's internal convection heat flow and plate tectonics.	S6C2PO4	
			TSW will explain the mechanism of heat transfer (convection, conduction, radiation) among the atmosphere, land masses and oceans.	S6C2P02	First Semester Final Exam

Grade Level: High School	Subject: Beginning Integrated	Time: Semester 2/ Quarter 3	Core Text:Earth Science, 2017, Heinbaugh and Winslow
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Time	Topic	Content (Nouns)	Skills (Verbs)	Standards	Assessment
	Forces that	Volcanoes	TSW demonstrate the	S6C2PO4	

Weeks 1 - 4	Shape Earth's Surface		relationship between the Earth's internal convection heat flow and plate tectonics. TSW demonstrate the relationships among earthquakes, volcanoes, mountain ranges, midoceanic ridges, deep sea trenches, and tectonic plates.	S6C2PO5	
		Earthquakes	TSW distinguish among seismic S, P, and surface waves.	S6C2PO6	
			TSW analyze the seismic evidence (S and P waves) used to determine the structure of the Earth.	S6C2PO7	
			TSW demonstrate the relationships among earthquakes, volcanoes, mountain ranges, mid-oceanic ridges, deep sea trenches, and tectonic plates	S6C2PO5	Unit Exam
Week 5 - 8	Earth's Atmosphere	Climate	TSW explain the effect of heat transfer on climate and weather, desertification, glaciation.	S6C2PO9 S6C2PO16	

	TSW list the factors that determine climate (e.g., altitude, latitude, water bodies, precipitation, prevailing winds, topography).	S6C2PO15	
Meteorology - Weather	TSW explain the effect of heat transfer on climate and weather.	S6C2P03	
	TSW describe the origin, life cyclic, behavior of weather systems (air masses, front, high and low systems).	S6C2PO11	
	Describe the conditions that causes Severe Weather (hurricanes, tornadoes, thunderstorms).	S6C2PO12	
	Propose appropriate safety measures that can be taken in preparation for severe weather.	S6C2PO13	Unit Exam

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Time	Topic	Content (Nouns)	Skills (Verbs)	Standards	Assessment
Weeks 1- 6	Earth's Water Features	Cycles in the Earth's System	TSW identify ways materials are cycled within the Earth system (i.e., carbon cycle, water cycle, rock cycle).	S6C1PO1	
			TSW describe factors that impact current and future water quantity and quality including surface, ground, and local water issues.	S6C1PO5	Unit Exam
		Oceanography	TSW identify the topographical features of the ocean, such as the continental shelf, mid-Atlantic Ridge, mid-Atlantic Rift, slope, seamount, and trench.	S6C2PO5	
			TSW describe ocean currents and upwelling, gyres, the Coriolis Effect, and bathymetric mapping.	S6C2PO10	Unit Exam

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Week 7-8	Environmental Issues	Change over Time	TSW explain the causes of glaciation, desertification, solar activity and the greenhouse effect.	S6C2PO16	
		Environmental Effects of Natural and Manmade Phenomena	TSW describe the effects of acid rain, smoke, volcanic dust, urban development, greenhouse gases, and climate change.	S6C2PO17	Unit Exam
					Second Semester Final Exam