

Struc	Structure of the Earth	Unit	CHECKPOINT			
Struc	tule of the Latti	Oilit	1	2	3	
ES.5	<b>Earth and space.</b> The student understands the structure of the Earth and the rock cycle. The student will explain what it means to say that God created the world and all matter out of nothing at a certain point in time; how it manifests His wisdom, glory, and purpose; and how He holds everything in existence according to His plan.*					

- ES.1A recognize that every human life is sacred because each person is created and loved by God\*
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- ES.1D see God at work in all things and as expressed in the sacraments\*
- ES.1E connect scripture, tradition, and the models of Mary and the saints to guide, grow, and deepen faith\*

Learning Process Standards (Tools to Know)	Unit	CHECKPOINT			
	Onit	1	2	3	
ES.2A plan and conduct investigations ES.2B collect information using appropriate scientific tools					

Conte		Unit	CH	IECKPOI	NT
Conic	eni	Onit	1	2	3
Classif	ying Rocks				
ES.5A	classify rocks as metamorphic, igneous, or sedimentary by the processes of their formation				
ES.5A.1	develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process				
Geolog	gic Time Scale				
ES.5B	construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's history				
Layers	of the Earth				
ES.5C	build a model to illustrate the compositional and mechanical layers of Earth, including the inner core, outer core, mantle, crust, asthenosphere, and lithosphere				

Learning Process Standards (Ways to Show)		Unit	CHECKPOINT		
		Unit	1	2	3
ES.2C	record and organize data and observations				
ES.2D	communicate observations about investigations				
ES.2E	represent the natural world using models				



Diat	e Tectonics	Unit	CHECKPOINT			
Flat	e rectoriics		1	2	3	
ES.5	Earth and space. The student understands plate tectonics.					

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Plate T	te Tectonics				
ES.5D	analyze and interpret data on the distribution of fossils and rocks, continental shapes, and seafloor structures to provide evidence of past plate motions				
ES.5D.1	describe how plate tectonics causes major geological events such as ocean basin formation, earthquakes, volcanic eruptions, and mountain building				
ES.5D.2	describe the historical development of evidence that supports plate tectonic theory				
ES.5D.3	identify the major tectonic plates				
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Weath	ering				
ES.5E	interpret topographic maps and satellite views to identify land and erosional features and predict how these features may be reshaped by weathering				

Loar	aing Process Standards (Mana to Show)	Unit	Cŀ	IECKPOI	NT
Lean	ning Process Standards (Ways to Show)	Unit	1	2	3
ES.2C	record and organize data and observations				
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Hum	luman Impacts on Earth Systems	Unit	CHECKPOINT			
Hulli	an impacts on Lartii Systems	Oilit	1	2	3	
ES.5	<b>Earth and space.</b> The student knows that human activity can impact Earth systems. The student will accept the premise that nature should not be manipulated simply at man's will or only viewed as a thing to be used, but that man must cooperate with God's plan for himself and for nature.*					

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Lograina B	g Process Standards (Tools to Know)	Unit	CHECKPOINT			
Learning F	Tocess standards (100is to know)	Unit	1	2	3	
•	nd conduct investigations t information using appropriate scientific tools					

Cont	and and	Unit	Cŀ	<b>IECKPOI</b>	JT
Cont		Onit	1	2	3
Impact	t of Human Activity				
ES.5F	construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth systems				
ES.5F.1	research and discuss the advantages and disadvantages of using coal, oil, natural gas, nuclear power, biomass, wind, hydropower, geothermal, and solar resources				
ES.5F.2	model the effects of human activity on groundwater and surface water in a watershed				
ES.5F.3	apply scientific principles to design a method for monitoring and minimizing human impact on the environment				
ES.5F.4	explain the processes of conservation, preservation, overconsumption, and stewardship in relation to caring for that which God has given us*				

Learning Process Standards (Ways to Show)		Unit	CHECKPOINT			
		Unit	1	2	3	
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Moa	ther and Climate	Unit	CH	IECKPOII	NT
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ES.5	<b>Earth and space.</b> The student knows that climatic interactions exist among Earth, ocean, and weather systems.				

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Lea	rning Process Standards (Tools to Know)	Unit	1	2	3
ES.2A ES.2B	plan and conduct investigations collect information using appropriate scientific tools				

Cont	ont	Unit	CI	HECKPOIN	NT
Conic	eni	Unit	1	2	3
Atmos	pheric Movement and Weather				
ES.5G	develop and use a model to describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation that determine regional climates				
ES.5G.1	recognize that the Sun provides the energy that drives convection within the atmosphere and oceans, producing winds				
ES.5G.2	identify the role of the oceans in the formation of weather systems such as hurricanes				
ES.5G.3	collect data to provide evidence for how the motions and complex interactions of air masses result in changes in weather conditions				
Climat	e Change				
ES.5H	ask questions to clarify evidence of the factors that have caused the rise in global temperatures over the past century				

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Matur	al Hazards	Unit	CH	IECKPOI	NT
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ES.5	<b>Earth and space.</b> The student knows that natural events can impact Earth systems. The student describes God's relationship with man and nature.*				

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Learning Process Standards (Tools to Know)	Onit	1	2	3
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Cont	ont	Unit	Cŀ	IECKPOII	NT
Com	eni	Onit	1	2	3
Impac	t of Natural Events on Ecosystems				
ES.5I	analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects				
ES.5I.1	analyze the effects of weathering, erosion, and deposition on the environment in ecoregions of Texas				
ES.51.2	predict and describe how catastrophic events such as floods, hurricanes, or tornadoes impact ecosystems				

Logra	sing Process Standards (Mayorto Show)	Unit	IECKPOI	NT	
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Ç.	ın, Earth, and Moon	Unit	CH	IECKPOI	NT
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ES.	<b>Earth and space.</b> The student knows the effects resulting from cyclical movements of the Sun, Earth, and Moon.				

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Lea	rning Process Standards (Tools to Know)	Ollit	1	2	3	
ES.2A ES.2B	•					

Cont	ont	Unit	CHECKPOINT			
Com	GIII	Oilit	1	2	3	
Earth's	s Movement, Lunar Cycle, and Tides					
ES.5J	develop and use a model of the Earth-Sun-Moon system to describe the cyclic patterns of lunar phases, eclipses of the Sun and Moon, and seasons					
ES.5J.1	relate the positions of the Moon and Sun to their effect on ocean tides					

Loarr	aing Process Standards (Weyn to Show)	Unit	CHECKPOINT				
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Tho	Solar System		CHECKPOINT		
1116	Solai System	Unit	1	2	3
ES.5	<b>Earth and space.</b> The student understands the organization of our solar system and the relationships among the various bodies that comprise it. The student displays a sense of wonder and delight about the natural universe and its beauty.*				

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ES.2A ES.2B	plan and conduct investigations collect information using appropriate scientific tools				

Content		Unit	CHECKPOINT			
			1	2	3	
The So	The Solar System					
ES.5K	analyze and interpret data to determine scale properties of objects in the solar system					
ES.5K.1	develop and use a model to describe the role of gravity in the motions within galaxies and the solar system					
ES.5K.2	analyze the characteristics of objects in our solar system that allow life to exist such as the proximity of the Sun, presence of water, and composition of the atmosphere					
Charac	Characteristics of the Universe					
ES.5L	describe components of the universe, including stars, nebulae, and galaxies, and use models such as the Hertzsprung-Russell diagram for classification					
ES.5L.1	recognize that the Sun is a medium-sized star located in a spiral arm of the Milky Way galaxy and that the Sun is many thousands of times closer to Earth than any other star					
ES.5L.2	identify how different wavelengths of the electromagnetic spectrum such as visible light and radio waves are used to gain information about components in the universe					

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ES.2E	represent the natural world using models				