

Structure of the Earth

Catholic Identity Standards (Ways to Grow)		Notes	Check Up		
Living our Faith	<input type="checkbox"/> I can connect what I learn to my faith.*				
	<input type="checkbox"/> I can apply what I learn in my daily life.*				

Learning Process Standards (Tools to Know)		Notes	Check Up		
Planning/ Performing Investigations	<input type="checkbox"/> I can plan and carry out an investigation. ES.2A				
Using Scientific Tools	<input type="checkbox"/> I can collect information using scientific tools. ES.2B				

Content		Notes	Check Up		
Classifying Rocks	<input type="checkbox"/> I can classify rocks by how they form. ES.5A <input type="checkbox"/> metamorphic <input type="checkbox"/> igneous <input type="checkbox"/> sedimentary				
	<input type="checkbox"/> I can develop a model to show the cycling of Earth's materials. ES.5A.1				
Geologic Time Scale	<input type="checkbox"/> I can explain how evidence from layers of rock can be used to organize Earth's history. ES.5B				
Layers of the Earth	<input type="checkbox"/> I can build and interpret models that illustrate the compositional and mechanical layers of Earth. ES.5C <input type="checkbox"/> inner core <input type="checkbox"/> outer core <input type="checkbox"/> mantle <input type="checkbox"/> crust <input type="checkbox"/> asthenosphere <input type="checkbox"/> lithosphere				

Learning Process Standards (Ways to Show)		Notes	Check Up		
Observing and Measuring	<input type="checkbox"/> I can collect and record information by observing and measuring. ES.2C				
Interpreting Information	<input type="checkbox"/> I can analyze and interpret information from an investigation and give a reasonable explanation based on the evidence. ES.2D				
Constructing Models	<input type="checkbox"/> I can represent the natural world using models. ES.2E				

Plate Tectonics

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Learning Process Standards (Tools to Know)		Notes	Check Up		
Planning/ Performing Investigations	<input type="checkbox"/> I can plan and carry out an investigation. ES.2A				
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Plate Tectonics	<input type="checkbox"/> I can analyze and interpret data that provide evidence of plate motions: ES.5D <ul style="list-style-type: none"> <input type="checkbox"/> fossils and rocks <input type="checkbox"/> continental shapes <input type="checkbox"/> seafloor structures 				
	<input type="checkbox"/> I can describe how plate tectonics causes major geological events. ES.5D.1 <ul style="list-style-type: none"> <input type="checkbox"/> ocean basin formation <input type="checkbox"/> earthquakes <input type="checkbox"/> volcanic eruptions <input type="checkbox"/> mountain building 				
	<input type="checkbox"/> I can describe the historical development of evidence that supports plate tectonic theory. ES.5D.2				
	<input type="checkbox"/> I can identify the major tectonic plates. ES.5D.3 <ul style="list-style-type: none"> <input type="checkbox"/> Eurasian <input type="checkbox"/> African <input type="checkbox"/> Indo-Australian <input type="checkbox"/> Pacific <input type="checkbox"/> North American <input type="checkbox"/> South American 				
Weathering	<input type="checkbox"/> I can interpret topographic maps and satellite views to identify land and erosional features. ES.5E				
	<input type="checkbox"/> I can predict how land and its features may be reshaped by weathering. ES.5E				

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Human Impacts on Earth Systems

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Impact of Human Activity	<input type="checkbox"/> I can explain how population and consumption impact Earth’s systems. ES.5F				
	<input type="checkbox"/> I can describe advantages and disadvantages of using energy resources. ES.5F.1 <input type="checkbox"/> coal <input type="checkbox"/> oil <input type="checkbox"/> natural gas <input type="checkbox"/> nuclear power <input type="checkbox"/> biomass <input type="checkbox"/> wind <input type="checkbox"/> hydropower <input type="checkbox"/> geothermal <input type="checkbox"/> solar				
	<input type="checkbox"/> I can model the effects of human activity on groundwater and surface water in a watershed. ES.5F.2				
	<input type="checkbox"/> I can create a way to monitor human impact on the environment. ES.5F.3				
	<input type="checkbox"/> I can describe how I can care for others and God’s earth by not wasting or overusing resources. ES.5F.4				

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Weather and Climate

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Learning Process Standards (Tools to Know)		Notes	Check Up		
Planning/ Performing Investigations	<input type="checkbox"/> I can plan and carry out an investigation. ES.2A				
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Content		Notes	Check Up		
Atmospheric Movement and Weather	<input type="checkbox"/> I can identify how global patterns of atmospheric movement influence local weather using weather maps that show high and low pressures and fronts. ES.5G				
	<input type="checkbox"/> I can recognize that the Sun provides the energy that drives convection within the atmosphere and oceans, producing winds. ES.5G.1				
	<input type="checkbox"/> I can identify the role of the oceans in the formation of weather systems such as hurricanes. ES.5G.2				
	<input type="checkbox"/> I can explain how interactions in air masses cause changes in weather. ES.5G.3				
Climate Change	<input type="checkbox"/> I can explain the factors that have caused an increase in global temperatures. ES.5H				

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Natural Hazards

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Impact of Natural Events on Ecosystems	<input type="checkbox"/> I can use data on natural hazards to forecast future catastrophic events. ES.5I				
	<input type="checkbox"/> I can describe the effects of weathering, erosion, and deposition on environments in ecoregions of Texas. ES.5I.1				
	<input type="checkbox"/> I can predict and describe how catastrophic events impact ecosystems. ES.5I.2 <input type="checkbox"/> floods <input type="checkbox"/> hurricanes <input type="checkbox"/> tornadoes				

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Sun, Earth, and Moon

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Earth's Movement, Lunar Cycle, and Tides	<input type="checkbox"/> I can model and illustrate how the tilted Earth rotates on its axis, causing day and night. ES.5J				
	<input type="checkbox"/> I can model and illustrate the sequence of events in the lunar cycle. ES.5J				
	<input type="checkbox"/> I can model and illustrate eclipses of the Sun and Moon. ES.5J				
	<input type="checkbox"/> I can model and illustrate how the tilted Earth revolves around the Sun, causing changes in seasons. ES.5J				
	<input type="checkbox"/> I can relate the positions of the Moon and Sun to their effect on ocean tides. ES.5J.1				

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The Solar System

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The Solar System	<input type="checkbox"/> I can use strategies to distance in the solar system. ES.5K				
	<input type="checkbox"/> I can describe the role of gravity within galaxies and the solar system. ES.KJ.1				
	<input type="checkbox"/> I can describe characteristics of objects in our solar system that allow life to exist. ES.5K.2 <input type="checkbox"/> proximity of the Sun <input type="checkbox"/> presence of water <input type="checkbox"/> composition of the atmosphere				
Characteristics of the Universe	<input type="checkbox"/> I can describe components of the universe. ES.5L <input type="checkbox"/> stars <input type="checkbox"/> nebulae <input type="checkbox"/> galaxies				
	<input type="checkbox"/> I can use models such as the Hertzsprung-Russell diagram to classify components of the universe. ES.5L				
	<input type="checkbox"/> I recognize that the Sun is a medium-sized star located in a spiral arm of the Milky Way galaxy. ES.5L.1				
	<input type="checkbox"/> I recognize that the Sun is many thousands of times closer to Earth than any other star. ES.5L.1				
	<input type="checkbox"/> I can 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. ES.5L.2				

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