

SAINT JOSEPH ELEMENTARY SCHOOL

<i>Month &</i>	<i>Content</i>	CONTENT		CATHOLIC IDENTITY	STANDARDS	
		<i>Essential Questions</i>	<i>Books & Materials</i>	<i>Essential Questions</i>		
SEPTEMBER						
	Materials' Properties - Students will describe the properties of different materials verbally and in writing. Students will determine the materials that work best in certain situations by conducting a series of tests. Students will learn that every piece of material, even very small, has weight.	What are the different properties that materials have? How can materials be tested to find the one that is best to solve a specific problem or need? How do we use the engineering design process?	Little Bear's Little Boat, Yi Min's Great Wall, EIE kit, mystery materials bags	What are the different materials found inside the church? What purposes do they serve physically and symbolically?	2-PS1-1	2-PS1-2
OCTOBER						
	Materials' Properties - Students will determine what a physical change is and develop the understanding that properties stay the same even when the item is broken into pieces.	How can you prove that materials keep their properties when broken into small pieces? What are physical changes? What does engineering a story look like?	Brain Pop Jr. videos, Little Bear's Little Boat, Yi Min's Great Wall, EIE Kit, materials to show physical change (paper, plastic)	What are the changes that happen to the bread and wine in Mass?	2-PS1-3	K-2-ETS1-3
NOVEMBER						
	Materials' Properties - Students will demonstrate their understanding of chemical changes by testing how heating and cooling a material affects it.	What are chemical changes? How can you prove that heating and cooling have reversible and irreversible changes on a material?	Brain Pop Jr. videos, Yi Min's Great Wall, EIE kit, baking soda and vinegar, "tie dye milk" experiment	What changes do we experience as Catholics through receiving the sacraments of Reconciliation and Eucharist?	2-PS1-4	K-2-ETS1-3
DECEMBER						
	Ecosystems and Habitats: Students will identify the important aspects of a habitat/ ecosystem. Components of a habitat include: food/water, shelter, a place to raise young. What does a plant need to survive?	What are the characteristics of living things and habitats? How does an animal's habitat provide for its basic needs? How do plants and animals survive in their habitats?	Informational texts on animals and types of habitats. Brain Pop Jr. videos.	Jesus says, "I am the vine and you are the branches," what are ways that we can strengthen our relationship with Jesus and support our spiritual growth? (use analogy to plant growth)	2-LS2-3(MA)	
JANUARY						
	Ecosystems and Habitats: Students will research and create a model of an animal and their habitat. Students will share their knowledge of a particular animal and its habitat. Habitats include: rainforest, desert, ocean, and arctic.	Can you compare and contrast different types of habitats/ ecosystems? How can you create a model of an animal's habitat?	Activities and Material examples: layers of the rainforest flipbook, labeling ocean zones, identify features of habitats. Informational texts about specific animals and their habitat. Websites for student research include: Ducksters.com, National Geographic for Kids, KidRex search engine. SJES online library resources/search engines. Brain Pop Jr. videos	How did God create animals to survive in their natural habitats?	2-LS2-3(MA)	2-LS4-1
FEBRUARY						

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		Essential Questions	Books & Materials	Essential Questions			
	Ecosystems and Habitats: Students will research and analyze animals in different environments.	How do people, animals, and plants interact with their environment? How do they depend on their surroundings?	Informational texts on animals and types of habitats. Brain Pop Jr. videos.	How can I protect and respect God's creations in different ecosystems? (ex. animals or habitats that are going extinct/ endangered)	2-LS2-3(MA)	2-LS4-1	
MARCH							
	Earth's Systems: Landforms - Students will develop an understanding of how wind and water change the shape of the land. Students will determine how these changes can be prevented.	How can wind and water change the shape of the land? How could changes to the shape of the land from wind or water be prevented?	Physical maps, Websites for student research include: Ducksters.com, National Geographic for Kids, KidRex search engine. SJES online library resources/search engines. Brain Pop Jr. videos	How has the church and the way we celebrate Mass changed over time? (connect to Jesus' early teachings in nature)	2-ESS2-1	2-ESS2-2	2-ESS2-3
APRIL							
	Earth's Systems: Landforms - Students will read and create maps that show Earth's physical features and landforms. Students will determine the types of landforms and their locations.	How can a map show the shapes and types of landforms in an area? How can a map show the water on earth?	Physical maps, Atlas, Websites for student research include: Ducksters.com, National Geographic for Kids, KidRex search engine. SJES online library resources/search engines. Brain Pop Jr. videos	Where did Jesus live? What landforms/physical features are found where Jesus lived?	2-ESS2-1	2-ESS2-2	2-ESS2-4(MA)
MAY							
	Energy: The effect of friction on temperature and speed of objects that rub against each other.	How does friction affect the speed and temperature of an object?	<i>Energy for Every Kid, Energy - Simple Experiments for Young Scientists, Energy Makes Things Happen, Heat and Energy</i>	Jesus is the light of the world. How does light affect temperature?	2-PS3-1(MA)		
JUNE							
	Energy: The effect of friction on temperature and speed of objects that rub against each other.	Does a material's properties affect the amount of energy that object can create?	<i>Energy for Every Kid, Energy - Simple Experiments for Young Scientists, Energy Makes Things Happen, Heat and Energy</i>	The branch and the vine are connected, and share energy with each other. How do you share your energy with your parish community?	2-PS3-1(MA)		