

SAINT JOSEPH ELEMENTARY SCHOOL

Month & Overarching Question	Content	CONTENT		CATHOLIC IDENTITY Essential Questions	SCIENCE STANDARDS			
		Essential Questions	Books & Materials		Earth and Space Science	Life Science	Physical Science	Technology and Engineering
SEPTEMBER								
	First Grade Alternates Science and Social Studies							
OCTOBER								
	PART PLANTS	What are the parts of a plant?	Brain Pop Jr- Plant Parts	What is the The Liturgical Cycle?	1-ESS1-1 Use observations of the Sun, Moon, and stars to describe that each appears to rise in one part of the sky, appears to move across the sky, and appears to set.	1-LS1-1 Use evidence to explain that (a) different animals use their body parts and senses in different ways to see, hear, grasp objects, protect themselves, move from place to place, and seek, find, and take in food, water, and air, and (b) plants have roots, stems, leaves, flowers, and fruits that are used to take in water, air, and other nutrients, and produce food for the plant. Clarification Statement: Descriptions are not expected to include mechanisms such as the process of photosynthesis.		
	GARDENING	What do plants need to grow? What kind of vegetables can flourish and be harvested in the fall? Can observations of the sun help us in identifying what parts of the garden get the most sun? Can this knowledge be used in connection with our plant book to determine where each plant should go?	First Grade Blooms book					
NOVEMBER								
	First Grade Alternates Science and Social Studies							
	STREAM- story problem	What is the PROBLEM in Horton Hears A Who? What is sound? How can you use your knowledge of sound to help the Hortons?	Horton Hears a Who by Dr. Seuss				1-PS4-4 Use tools and materials to design and build a device that uses light or sound to send a signal over a distance. Clarification Statements: Examples of	1.K-2-ETS1-1 Ask questions, make observations, and gather information about a situation people want to change that can be solved by developing or improving an object or tool.*
DECEMBER								
	SOUND/STREAM	What is Sound? What are the elements of sound? What is an acoustic? What is an acoustical engineer? How do you create a sound and then dampen them? What is the design process? How did Kwayme use visual representation to show sound? How can you represent sound using the elements of various bird calls?	STREAM kit- making a guitar and a horn. Dampening the sound with materials. CDs with bord sounds.				1-PS4-1 Demonstrate that vibrating materials can make sound and that sound can make materials vibrate. Clarification Statements: Examples of vibrating materials that make sound could include tuning forks, a stretched string or rubber band, and a drum head. Examples of how sound can make materials vibrate could include holding a piece of paper near a speaker making sound and holding an object near a vibrating tuning fork.	1.K-2-ETS1-1 Ask questions, make observations, and gather information about a situation people want to change that can be solved by developing or improving an object or tool.* 1.K-2-ETS1-2 Generate multiple solutions to a design problem and make a drawing (plan) to represent one or more of the solutions.*

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JANUARY								
	First Grade Alternates Science and Social Studies							
	STREAM CONTINUED (sound)							
FEBRUARY								
	ANIMAL- Hereditary and Body Parts/Behavior for Survival	Do parents and children all look alike? Do siblings all look alike? What are traits? What is hereditary? How are traits passed and how do siblings/children end up looking different? How do animals use their behavior patterns to survive? How do they use their communication to survive? How do they use their body parts to survive? FCA- pick an animal and discuss two ways it survives as final assessment.	Stream Project- Bug Traits Animal Families How Animals Communicate Body Part Book *****get names from library					1.LS1-1 Use evidence to explain that (a) different animals use their body parts and senses in different ways to see, hear, grasp objects, protect themselves, move from place to place, and seek, find, and take in food, water, and air, and (b) plants have roots, stems, leaves, flowers, and fruits that are used to take in water, air, and other nutrients, and produce food for the plant. Clarification Statement: Descriptions are not expected to include mechanisms such as the process of photosynthesis. 1.LS1-2 Obtain information to compare ways in which the behavior of different animal parents and their offspring help the offspring to survive. Clarification Statement: Examples of behaviors could include the signals that offspring make (such as crying, cheeping, and other vocalizations) and the responses of the parents (such as feeding, comforting, and protecting the offspring). 1-LS3-1
MARCH								
	First Grade Alternates Science and Social Studies							
APRIL								
	Natural Resources and Light	What is a natural resource? What is a renewable resource? What is a non-renewable resource? What do trees provide for us? Why do we need air? Why do we need water?	Tell me, Tree by Gail Gibbons Can Name 50 Trees Today by Bonnie Worth Are Trees Alive? By Debbie S Miller	What are some ways we can treat God's creations with respect?				1.1 Identify and describe characteristics of natural materials (wood, cotton, fur, wool) and human-made materials (plastic, styrofoam.) 1.2 Identify and explain possible uses for natural materials
	Earth Day/Recycling	Why do we celebrate Earth Day? What are some of the problems affecting the Earth? How can we help the Earth? What is recycling? What does the symbol look like and mean?	Earth Day Bernsetin Bears Go Green Recycling Books	Why is it important to God that we protect the Earth?				
	GARDENING	NEW planting. What should we grow? What will be of value if we can donate what we grow? How is the growth and sun position different from the fall?	First-hand observations	How can we help God's poor and the Earth at the same time?				
MAY								
	First Grade Alternates Science and Social Studies							
	GARDENING	Ongoing						

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JUNE								
	Nutrition and Healthy Living	What foods are good for our body? What nutrients do we need? What are skills to help control the spread of germs? Why is exercise important?	What Are Germs? By Alvin Silverstein	What are some ways that God would like us to take care of our bodies that he created?				He1.3.1 Identify the key nutrients in food that support healthy body systems