SAINT JOSEPH ELEMENTARY SCHOOL MATHEMATICS CURRICULUM AT-A-GLANCE GRADE 4

CONTENT				CATHOLIC IDENTITY	MATHEMATICS					
Month & Overarching Question	*Content*	*Essential Questions*	*Books & Materials*	*Essential Questions*	*The Number System*	*Operations & Algebraic Thinking*	*Number Operations in Base Ten*	*Number Operations - Fractions*	*Measurement & Data*	*Geometry*
SEPTEMBER										
	-multiplication and division:meanings and facts generate and analyze patterns	-How can patterns and properties be used to find some multiplication facts? -How can unknown multiplication facts be found by breaking them into known facts? -How can unknown division facts be found by thinking about a related multiplication faact? -How can patterns be used to describe how two quantities are related? -How can a relationship between two quantities be shown using a table?	-enVision grade 4	-If Jesus started with four loaves of bread, and ended with 20, what rule can be applied?		4. OA.A.1 4.OA.A.2 4.OA.A.3 4.OA.C.5				
OCTOBER										
	-generate and analyze patterns -place value -addition and subtraction of whole numbers	-How can patterns be used to describe how two quantities are related? -How can a relationship between two quantities be shown using a table? -How are greater numbers read and written? -How can ordered numbers be compared and ordered? --How can sums and differences of whole numbers be estimated? -What are standard procedures for adding and subtracting whole numbers?	-enVision grade 4	-How many years ago did God create the Earth?		4.OA.A.3 4.OA.C.5 4.OA.A.3	4.NBT.A.1 4.NBT.A.2 4.NBT.A.3 4.NBT.B.4			

NOVEMBER

-addition and subtraction of whole numbers -number sense: multiplying by 1-digit numbers	-How can sums and differences of whole numbers be estimated? -What are standard procedures for adding and subtracting whole numbers? -How can some products be found mentally? -How can products be estimated?	-enVision grade 4	-If Jesus started with no disciples and ended with 12, how many were added over time?	4.OA.A.3	4.NBT.B.4 4.NBT.A.3 4.NBT.B.5

DECEMBER

-developing fluency: multiplying by 1-digit numbers -number sense: multiplying by 2-digit numbers	-How can arrays be used to find products? -What is a standard procedure for multiplying multi-digit numbers? -How can greater products be found mentally? -How can greater products be estimated?	-enVision grade 4	-On Noah's Arc, God asked for there to be two of every animal. If there were 75 dfferent types of animals, how many animals were on the Arc in all?	4.OA.A.2 4.OA.A.3	4.NBT.A.3 4.NBT.B.5

JANUARY

-Number sense: multiplying 2-digit numbers -developing fluency: multiplying 2-digit numbers	-How can greater products be found mentally? -How can greater products be estimated? -How can arrays be used to find greater products? -What is a standard procedure for multiplying multi-digit numbers?	-enVision grade 4	-On Noah's Arc, God asked for there to be two of every animal. If there were 75 dfferent types of animals, how many animals were on the Arc in all?	4.OA.A.2 4.OA.A.3	4.NBT.A.3 4.NBT.B.5

FEBRUARY

-Number sense: dividing by 1-digit divisors -Developing fluency: dividing by 1-digit divisors -fraction equivalence and ordering	-What are different meanings of division? -How can mental math and estimation be used to divide? -How can repeated subtraction be used to model division? -What is the standard procedure for dividing multi-digit numbers? -How can the same fractional amount be named using symbols in different ways? -How can fractions be compared and ordered?	-enVision grade 4	-A catholic hospital has 12 patients in their care. If they receive 48 different Valentine's day cards, how many will each patient get?	4.OA.A.3 4.OA.B.4	4.NBT.B.5 4.NBT.B.6	4.NF.A.1 4.NF.A.2

MARCH

-Fraction equivalence and ordering -adding and subtracting fractions and mixed numbers with like denominators	-How can the same fractional amount be named using symbols in different ways? -How can fractions be compared and ordered? -What does it mean to add and subtract fractions and mixed numbers with like denominators? -What is a standard procedure for adding and subtracting fractions and mixed numbers with like denominators? -How can fractions and mixed numbers be added and subtracted on a number line?	-enVision grade 4	-Saint Patrick was trying to get rid of the snakes in Ireland. There were 30 snakes on Monday, but he got rid of 1/2 of them. How many snakes were left? Name two equivalent fractions.	4.OA.B.4	4.NF.A.1 4.NF.A.2 4.NF.B.3a,3b, 3c, 3d	

APRIL

-extending fraction concepts -measuremenet units and conversions	-How is decimal numeration related to whole number numeration? -How can decimals be compared and ordered? -How are fractions and decimals related? -What are customary and metric units for measuring length, capacity, and weight/mass, and how are they related?	-enVision grade 4	-Jesus walked from Jerusalem to Galilee. This is a 400 mile walk. How many kilometers is that?		-4.NF.B.4a, 4b, 4c -4.NF.C.5 -4.NF.C.6 -4.NF.C.7	-4.MD.A.1 -4.MD.A.2

MAY

-Solving measurement and data problems -lines, angles, and shapes	-What do area and perimeter mean and how can each be found? -How can line plots and other tools help us solve measurement problems? -How can lines, angles, and shapes be described, analyzed, and classified? -How are angles measured, added and	-enVision grade 4	-Jesus walked from Jerusalem to Galilee. This is a 400 mile walk. How many kilometers is that?	4.OA.C.5	-4.MD.A.2 -4.MD.A.3 -4.MD.B.4 -4.MD.C.5a, 5b, -4.MD.C.6 -4.MD.C.7	4.G.A.1, 4.G.A.2, 4.G.A.3

JUNE

-Step-Up to Grade 5		-enVision grade 4				