

Place Value of Whole Numbers and Decimals		Unit	CHECKPOINT		
			1	2	3
4.3	Number and operations. The student represents, compares, and orders whole numbers and decimals and understands relationships related to place value.				

Catholic Identity Standards (Ways to Grow)					
4.1A	recognize that every human life is sacred because each person is created and loved by God*				
4.1B	describe ways to take part in/be responsible to the community by discerning and using our God-given gifts*				
4.1C	recognize and oppose unjust social structures and work toward justice for all*				
4.1D	see God at work in all things and as expressed in the sacraments*				
4.1E	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		
			1	2	3
4.2A	determine math needed to solve problems				
4.2B	use problem-solving models				
4.2C	exhibit joy at solving difficult mathematical problems*				

Content		Unit	CHECKPOINT		
			1	2	3
Place Value of Whole Numbers					
4.3A	represent the value of the digit in whole numbers through 1,000,000,000 using expanded notation and numerals				
4.3A.1	interpret the value of each place-value position as 10 times the position to the right and as one-tenth of the value of the place to its left				
4.3A.2	compare and order whole numbers to 1,000,000,000 and represent comparisons using the symbols $>$, $<$, or $=$				

Place Value of Decimals					
4.3B	represent the value of the digit in decimals to the hundredths using expanded notation and numerals				
4.3B.1	represent decimals, including tenths and hundredths, using concrete, visual models, number lines, and money				
4.3B.2	compare and order decimals to the hundredths using concrete and visual models				
4.3B.3	represent decimals to the tenths or hundredths as distances from zero on a number line				

Learning Process Standards (Ways to Show)		Unit	CHECKPOINT		
			1	2	3
4.2D	create representations				
4.2E	analyze information				
4.2F	develop lines of inquiry to determine truth or falsehood*				

Whole Number and Decimal Operations		Unit	CHECKPOINT		
			1	2	3
4.4	Number and operations. The student uses strategies and methods for whole number computations and decimal sums and differences in order to solve problems with efficiency and accuracy.				

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Adding and Subtracting Whole Numbers and Decimals					
4.4A	add and subtract whole numbers and decimals to the hundredths place				
4.4A.1	round whole numbers to a given place value through the hundred thousands place				

Multiplying Whole Numbers					
4.4B	solve with fluency one- and two-step problems involving multiplication				
4.4B.1	determine products of a number and 10 or 100 using properties of operations and place value understandings				
4.4B.2	represent the product of 2 two-digit numbers using arrays, area models, or equations				
4.4B.3	multiply up to a four-digit number by a one-digit number and multiply a two-digit number by a two-digit number				

Dividing Whole Numbers					
4.4C	solve with fluency one- and two-step problems involving division, including interpreting remainders				
4.4C.1	represent the quotient of up to a four-digit whole number divided by a one-digit whole number using arrays, area models, or equations				
4.4C.2	use strategies and algorithms, including the standard algorithm, to divide up to a four-digit dividend by a one-digit divisor				

All Operations with Whole Numbers					
4.4D	represent multi-step problems involving the four operations with whole numbers using strip diagrams and equations with a letter standing for the unknown quantity				
4.4D.1	represent problems using an input-output table and numerical expressions to generate a number pattern that follows a given rule representing the relationship of the values in the resulting sequence and their position in the sequence				

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Fractions	Unit	CHECKPOINT		
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4.4 Number and operations. The student represents and generates fractions to solve problems.				

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Comparing Fractions				
4.4E compare two fractions with different numerators and different denominators and represent the comparison using the symbols $>$, $=$, or $<$				
4.4E.1 determine if two given fractions are equivalent				
4.4E.2 relate decimals to fractions that name tenths and hundredths				
4.4E.3 represent fractions to the tenths or hundredths as distances from zero on a number line				

Adding and Subtracting Fractions				
4.4F represent and solve addition and subtraction of fractions with equal denominators using objects and pictorial models that build to the number line and properties of operations				
4.4F.1 represent a fraction a/b as a sum of fractions $1/b$, where a and b are whole numbers and $b > 0$, including when $a > b$				
4.4F.2 decompose a fraction in more than one way into a sum of fractions with the same denominator using concrete and pictorial models and recording results with symbolic representations				

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Geometry	Unit	CHECKPOINT		
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4.6 Geometry and measurement. The student analyzes geometric attributes in order to develop generalizations about their properties.				

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Two-Dimensional Shapes				
4.6A classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines or the presence or absence of angles of a specified size				
4.6A.1 identify points, lines, line segments, rays, angles, and perpendicular and parallel lines				
4.6A.2 identify and draw one or more lines of symmetry, if they exist, for a two-dimensional figure				
4.6A.3 apply knowledge of right angles to identify acute, right, and obtuse triangles				

Angle Measurements				
4.6B determine the approximate measures of angles in degrees to the nearest whole number using a protractor				
4.6B.1 draw an angle with a given measure				
4.6B.2 determine the measure of an unknown angle formed by two non-overlapping adjacent angles given one or both angle measures				

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Measurement	Unit	CHECKPOINT		
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4.6 Geometry and measurement. The student selects appropriate customary and metric units, strategies, and tools to solve problems involving measurement.				

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Perimeter/Area				
4.6C solve problems related to perimeter and area of rectangles where dimensions are whole numbers				
4.6C.1 use models to determine the formulas for the perimeter of a rectangle ($l + w + l + w$ or $2l + 2w$), including the special form for perimeter of a square ($4s$) and the area of a rectangle ($l \times w$)				

Solving Measurement Problems			
4.6D solve problems that deal with measurements of length, intervals of time, liquid volumes, mass, and money using addition, subtraction, multiplication, or division as appropriate			
4.6D.1 identify relative sizes of measurement units within the customary and metric systems			
4.6D.2 convert measurements within the same measurement system, customary or metric, from a smaller unit into a larger unit or a larger unit into a smaller unit when given other equivalent measures represented in a table			

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Data Analysis		Unit	CHECKPOINT		
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4.7	Data analysis. The student solves problems by collecting, organizing, displaying, and interpreting data.				

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Using Data to Solve Problems					
4.7A	solve one- and two-step problems using data in whole number, decimal, and fraction form in a frequency table, dot plot, or stem-and-leaf plot				
4.7A.1	represent data on a frequency table, dot plot, or stem-and-leaf plot marked with whole numbers and fractions				

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