

Rational Numbers		Unit	CHECKPOINT		
			1	2	3
6.4	Number and operations. The student represents addition, subtraction, multiplication, and division of rational numbers while solving problems and justifying the solutions.				

Catholic Identity Standards (Ways to Grow)	
6.1A	recognize that every human life is sacred because each person is created and loved by God*
6.1B	describe ways to take part in/be responsible to the community by discerning and using our God-given gifts*
6.1C	recognize and oppose unjust social structures and work toward justice for all*
6.1D	see God at work in all things and as expressed in the sacraments*
6.1E	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
6.2A	determine math needed to solve problems				
6.2B	use problem-solving models				
6.2C	exhibit joy at solving difficult mathematical problems*				

Content		Unit	CHECKPOINT		
			1	2	3
Comparing Rational Numbers					
6.4A	order a set of rational numbers arising from mathematical and real-world contexts				
6.4A.1	classify whole numbers, integers, and rational numbers using a visual representation such as a Venn diagram to describe relationships between sets of numbers				
6.4A.2	locate, compare, and order integers and rational numbers using a number line				

Multiplying and Dividing Positive Rational Numbers					
6.4B	multiply and divide positive rational numbers fluently				
6.4B.1	extend representations for division to include fraction notation such as a/b represents the same number as $a \div b$ where $b \neq 0$				
6.4B.2	recognize that dividing by a rational number and multiplying by its reciprocal result in equivalent values				
6.4B.3	determine, with and without computation, whether a quantity is increased or decreased when multiplied by a fraction, including values greater than or less than one				

All Operations with Integers					
6.4C	add, subtract, multiply, and divide integers fluently				
6.4C.1	identify a number, its opposite, and its absolute value				
6.4C.2	represent integer operations with concrete models and connect the actions with the models to standardized algorithms				

Learning Process Standards (Ways to Show)		Unit	CHECKPOINT		
			1	2	3
6.2D	create representations				
6.2E	analyze information				
6.2F	develop lines of inquiry to determine truth or falsehood*				

Proportional Reasoning		Unit	CHECKPOINT		
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6.5	Proportionality. The student solves problems involving proportional relationships.				

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Percents					
6.5A	solve real-world problems using percent				
6.5A.1	generate equivalent forms of fractions, decimals, and percents using real-world problems, including problems that involve money				
6.5A.2	represent percents with concrete models, fractions, and decimals				
Ratios/Rates					
6.5B	apply qualitative and quantitative reasoning to solve prediction and comparison of real-world problems involving ratios and rates				
6.5B.1	represent mathematical and real-world problems involving ratios and rates using scale factors, tables, graphs, and proportions				
6.5B.2	convert units within a measurement system, including the use of proportions and unit rates				

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Geometry and Measurement		Unit	CHECKPOINT		
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6.6	Geometry and measurement. The student uses geometry to represent relationships and solve problems.				

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Conversions					
6.6A	convert units within a measurement system, including the use of proportions and unit rates				

Triangles					
6.6B	determine the sum of angles of a triangle, the relationship between the lengths of sides and measures of angles in a triangle, and when three lengths form a triangle				

Area and Volume					
6.6C	determine solutions for problems involving the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers				
6.6C.1	model area formulas for parallelograms, trapezoids, and triangles by decomposing and rearranging parts of the shapes				
6.6C.2	write equations that represent problems related to the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers				

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Data Analysis		Unit	CHECKPOINT		
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6.7	Data analysis. The student uses numerical or graphical representations to analyze and solve problems.				

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Interpreting Data					
6.7A	interpret numeric data summarized in dot plots, stem-and-leaf plots, histograms, and box plots				
6.7A.1	represent numeric data graphically, including dot plots, stem-and-leaf plots, histograms, and box plots				

Measures of Data					
6.7B	use appropriate numerical or categorical data with numerical summaries to analyze and interpret a set of data				
6.7B.1	summarize numeric data with numerical summaries, including the mean and median (measures of center) and the range and interquartile range (IQR) (measures of spread), and use these summaries to describe the center, spread, and shape of the data distribution				
6.7B.2	summarize categorical data with numerical and graphical summaries, including the mode, the percent of values in each category (relative frequency table), and the percent bar graph, and use these summaries to describe the data distribution				
6.7B.3	use the graphical representation of numeric data to describe the center, spread, and shape of the data distribution				

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Expressions, Equations, and Inequalities		Unit	CHECKPOINT		
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6.8	Algebra. The student uses equations and inequalities to solve problems.				

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Order of Operations					
6.8A	generate equivalent numerical expressions using order of operations, including whole number exponents and prime factorization				
6.8A.1	generate equivalent expressions using the properties of operations: inverse, identity, commutative, associative, and distributive properties				
6.8A.2	determine if two expressions are equivalent using concrete models, pictorial models, and algebraic representations				

Solving Problems with Equations/Inequalities		Unit	1	2	3
6.8B	model and solve one-variable, one-step equations and inequalities that represent problems, including geometric concepts				
6.8B.1	write one-variable, one-step equations and inequalities				
6.8B.2	represent solutions for one-variable, one-step equations and inequalities on number lines				

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Algebraic Representations	Unit	CHECKPOINT		
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6.8 Algebra. The student uses multiple representations to describe algebraic relationships.				

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Linear Representations				
6.8C represent a given situation using verbal descriptions, tables, graphs, and equations in the form $y = kx$ or $y = x + b$				
6.8C.1 compare two rules verbally, numerically, graphically, and symbolically in the form of $y = ax$ or $y = x + a$ in order to differentiate between additive and multiplicative relationships				
6.8C.2 identify independent and dependent quantities from tables and graphs				
6.8C.3 write an equation that represents the relationship between independent and dependent quantities from a table				
6.8C.4 graph points in all four quadrants using ordered pairs of rational numbers				

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