Rational Number Representations and Operations	Unit	CHECKPOINT		
		1	2	3
7.4 **Number and operations.** The student adds, subtracts, multiplies, and divides rationale numbers while solving problems and justifying solutions.				

Catholic Identity Standards (Ways to Grow)

7.1A	recognize that every human life is sacred because each person is created and loved by God*
7.1B	describe ways to take part in/be responsible to the community by discerning and using our God-given gifts*
7.1C	recognize and oppose unjust social structures and work toward justice for all*
7.1D	see God at work in all things and as expressed in the sacraments*
7.1E	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
7.2A determine math needed to solve problems				
7.2B use problem-solving models				
7.2C exhibit habits of thinking quantitatively*				

Content	Unit	CHECKPOINT		
		1	2	3
Solving Problems with Rational Numbers				
7.4A solve problems using addition, subtraction, multiplication, and division of rational numbers				
7.4A.1 add, subtract, multiply, and divide rational numbers fluently				
7.4A.2 extend previous knowledge of sets and subsets using a visual representation to describe relationships between sets of rational numbers				

Learning Process Standards (Ways to Show)	Unit	CHECKPOINT		
		1	2	3
7.2D create representations				
7.2E analyze information				
7.2F develop lines of inquiry to determine truth or falsehood*				

Proportional Reasoning	Unit	CHECKPOINT		
		1	2	3
7.5 **Proportionality.** The student represents and solves problems involving proportional relationships.				

Catholic Identity Standards (Ways to Grow)
7.1A   recognize that every human life is sacred because each person is created and loved by God*
7.1B   describe ways to take part in/be responsible to the community by discerning and using our God-given gifts*
7.1C   recognize and oppose unjust social structures and work toward justice for all*
7.1D   see God at work in all things and as expressed in the sacraments*
7.1E   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
7.2A determine math needed to solve problems				
7.2B use problem-solving models				
7.2C exhibit habits of thinking quantitatively*				

Content	Unit	CHECKPOINT		
		1	2	3
Constant Rate of Change				
7.5A represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $d = rt$				
7.5A.1 calculate unit rates from rates in mathematical and real-world problems				
7.5A.2 determine the constant of proportionality ($k = y/x$) within mathematical and real-world problems				
Linear Equations				
7.5B represent linear relationships using verbal descriptions, tables, graphs, and equations that simplify to the form $y = mx + b$				
Ratios/Rates/Percentages				
7.5C solve problems involving ratios, rates, and percents, including multi-step problems involving percent increase and percent decrease, and financial literacy problems				

Learning Process Standards (Ways to Show)	Unit	CHECKPOINT		
		1	2	3
7.2D create representations				
7.2E analyze information				
7.2F develop lines of inquiry to determine truth or falsehood*				

Geometry and Measurement

	Unit	CHECKPOINT		
		1	2	3
7.6 **Geometry and measurement.** The student solves geometric problems involving proportional relationships and volume.				

Catholic Identity Standards (Ways to Grow)

7.1A	recognize that every human life is sacred because each person is created and loved by God*
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7.1C	recognize and oppose unjust social structures and work toward justice for all*
7.1D	see God at work in all things and as expressed in the sacraments*
7.1E	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
7.2A	determine math needed to solve problems				
7.2B	use problem-solving models				
7.2C	exhibit habits of thinking quantitatively*				

Content

		Unit	CHECKPOINT		
			1	2	3
Area					
7.6A	determine the area of composite figures containing combinations of rectangles, squares, parallelograms, trapezoids, triangles, semicircles, and quarter circles				
7.6A.1	solve problems involving the lateral and total surface area of a rectangular prism, rectangular pyramid, triangular prism, and triangular pyramid by determining the area of the shape's net				
Volume					
7.6B	solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and triangular pyramids				
7.6B.1	model the relationship between the volume of a rectangular prism and a rectangular pyramid having both congruent bases and heights and connect that relationship to the formulas				
7.6B.2	explain verbally and symbolically the relationship between the volume of a triangular prism and a triangular pyramid having both congruent bases and heights and connect that relationship to the formulas				
Similarity					
7.6C	solve mathematical and real-world problems involving similar shape and scale drawings				
7.6C.1	generalize the critical attributes of similarity, including ratios within and between similar shapes				
Angle Relationships					
7.6D	write and solve equations using geometry concepts, including the sum of the angles in a triangle, and angle relationships				
Circles					
7.6E	determine the circumference and area of circles				
7.6E.1	describe π as the ratio of the circumference of a circle to its diameter				

Learning Process Standards (Ways to Show)

		Unit	CHECKPOINT		
			1	2	3
7.2D	create representations				
7.2E	analyze information				
7.2F	develop lines of inquiry to determine truth or falsehood*				

Data Analysis	Unit	CHECKPOINT		
		1	2	3
7.7 **Data analysis.** The student uses statistical representations to analyze data.				

Catholic Identity Standards (Ways to Grow)

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Learning Process Standards (Tools to Know)	Unit	CHECKPOINT		
		1	2	3
7.2A determine math needed to solve problems				
7.2B use problem-solving models				
7.2C exhibit habits of thinking quantitatively*				

Content	Unit	CHECKPOINT		
		1	2	3
Interpreting Data				
7.7A solve problems using data represented in bar graphs, dot plots, and circle graphs, including part-to-whole and part-to-part comparisons and equivalents				
7.7A.1 use data from a random sample to make inferences about a population				
Comparing Data				
7.7B compare two groups of numeric data using comparative dot plots or box plots by comparing their shapes, centers, and spreads				
7.7B.1 compare two populations based on data in random samples from these populations, including informal comparative inferences about differences between the two populations				

Learning Process Standards (Ways to Show)	Unit	CHECKPOINT		
		1	2	3
7.2D create representations				
7.2E analyze information				
7.2F develop lines of inquiry to determine truth or falsehood*				

Probability

	Unit	CHECKPOINT		
		1	2	3
7.7 **Data analysis.** The student uses probability and statistics to describe or solve problems involving proportional relationships.				

Catholic Identity Standards (Ways to Grow)

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Learning Process Standards (Tools to Know)

		Unit	CHECKPOINT		
			1	2	3
7.2A	determine math needed to solve problems				
7.2B	use problem-solving models				
7.2C	exhibit habits of thinking quantitatively*				

Content

		Unit	CHECKPOINT		
			1	2	3
Determining Probability					
7.7C	determine experimental and theoretical probabilities related to simple and compound events using data and sample spaces				
7.7C.1	find the probabilities of a simple event and its complement and describe the relationship between the two				
7.7C.2	represent sample spaces for simple and compound events using lists and tree diagrams				
7.7C.3	select and use different simulations to represent simple and compound events with and without technology				
Applying Probability					
7.7D	solve problems using qualitative and quantitative predictions and comparisons from simple experiments				
7.7D.1	make predictions and determine solutions using experimental data for simple and compound events				
7.7D.2	make predictions and determine solutions using theoretical probability for simple and compound events				
7.7D.3	use data from a random sample to make inferences about a population				

Learning Process Standards (Ways to Show)

		Unit	CHECKPOINT		
			1	2	3
7.2D	create representations				
7.2E	analyze information				
7.2F	develop lines of inquiry to determine truth or falsehood*				

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Equations and Inequalities	Unit	CHECKPOINT		
		1	2	3
7.8 **Algebra.** The student solves one-variable equations and inequalities.				

Catholic Identity Standards (Ways to Grow)

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Learning Process Standards (Tools to Know)	Unit	CHECKPOINT		
		1	2	3
7.2A determine math needed to solve problems				
7.2B use problem-solving models				
7.2C exhibit habits of thinking quantitatively*				

Content	Unit	CHECKPOINT		
		1	2	3
Solving Problems with Equations/Inequalities				
7.8A model and solve one-variable, two-step equations and inequalities				
7.8A.1 write one-variable, two-step equations and inequalities				
7.8A.2 represent solutions for one-variable, two-step equations and inequalities on number lines				

Learning Process Standards (Ways to Show)	Unit	CHECKPOINT		
		1	2	3
7.2D create representations				
7.2E analyze information				
7.2F develop lines of inquiry to determine truth or falsehood*				