Saint Theresa of Avila School- West Roxbury, MA
Curriculum Map

Subject: Math	Grade: 6

Time Frame	Essential Question	Topic	Content	Resources	Assessments	Standards
September	How are whole numbers and decimals written, compared and ordered? How are the values of an algebraic expression and a numerical expression found?	Ch1: Numeration Ch2: Variables, Expressions, and Properties	-Place Value -Comparing and Ordering Whole Numbers - Exponents and Place Value -Decimal Place Value - Multiplying and Dividing by 10, 100, and 1000 -Comparing and Ordering Decimals -Using Variables to Write Expressions -Properties of Operations -Order of Operations -The Distributive Property -Mental Math -Using Expressions to Describe Patterns -Problem Solving - Make an Organized List and Make a Table	*Envison Math* Textbook *Envison Math* workbook White Boards Online Text on Smartboard Visuals Ipads Khan Academy ixl middle school math Chapter Study Guides and Practice Quizzes www.pearsonsuccessnet.com ISEE Test Prep	Weekly Quizzes Homework Checks Guided Practice End of the chapter exam	Common Core State Standards: 6.NS.3 6.EE.1 6.EE.2 6.EE.2.a 6.EE.2.b 6.EE.2.c 6.EE.3 6.EE.6 6.NS.2

October	How is estimation more efficient but less precise than computation? How do inverse operations help determine the value of unknown variables?	Ch3: Operations With Decimals Ch4: Solving Equations	- Estimating Sums and Differences -Adding and Subtracting - Estimating Products and Quotients - Multiplying Decimals - Dividing by a Whole Number - Dividing a Whole Number by a Decimal -Dividing Decimals - Evaluating Expressions - Scientific Notations - Problem Solving - Multiple-Step - Problems - Properties of Equality - Solving Addition and Subtraction Equations - Solving Multiplication and Division Equations - Problem Solving - write an equation /draw a picture	*Envison Math* Textbook *Envison Math* workbook White Boards Online Text on Smartboard Visuals Ipads Khan Academy ixl middle school math Chapter Study Guides and Practice Quizzes www.pearsonsuccessnet.com ISEE Test Prep	Weekly Quizzes Homework Checks Guided Practice End of the chapter exam	6.NS.2 6.NS.3 6.EE.2.c 6.EE.5 6.EE.6 6.EE.3 6.EE.4 6.EE.5 6.EE.6 6.EE.7 6.NS.2

November	What does it mean to divide and multiply fractions with unlike denominators? What is a standard procedure for multiplying and dividing decimals with mixed numbers?	Ch5: Number and Fraction Concepts Ch6: Decimals, Fractions, and Mixed Numbers	Factors, Multiples and Divisibility -Prime Factorization -Greatest Common Factor -Understanding Fractions -Equivalent Fractions -Fractions in Simplest Form -Problem Solving -Make and Test Conjectures -Fractions and Division -Fractions and Decimals -Improper Fractions and Mixed Numbers -Decimal Form of Fractions and Mixed Numbers -Problem Solving - make a Picture	ISEE Test Prep *Envison Math* Textbook *Envison Math* workbook White Boards Online Text on Smartboard Visuals Ipads Khan Academy ixl middle school math Chapter Study Guides and Practice Quizzes www.pearsonsuccessnet.com	Weekly Quizzes Homework Checks Guided Practice End of the chapter exam	6.NS.4 6.NS.4

December	What does it mean to add, subtract and multiply fractions with mixed numbers? What is a standard procedure for adding, subtracting and multiplying fractions with mixed numbers?	Ch7: Adding and Subtracting Fractions and Mixed Numbers Ch8: Multiplying Fractions and Mixed Numbers	- Like Denominators -Least Common Multiple -Unlike Denominators -Estimating Sums and Differences of Mixed Numbers -Adding Mixed Numbers -Subtracting Mixed Numbers -Problem Solving - Making a Table -Multiplying a Fraction and a whole Number -Estimating Products -Multiplying Fractions -Multiplying Mixed Numbers	*Envison Math* Textbook *Envison Math* workbook White Boards Online Text on Smartboard Visuals Ipads Khan Academy ixl middle school math Chapter Study Guides and Practice Quizzes www.pearsonsuccessnet.com	Weekly Quizzes Homework Checks Guided Practice End of the chapter exam	6.NS.4 6.RP.1 6.NS.1 6.NS.2 6.EE.7
January	What are the standard procedures for estimating and finding products and quotients of fractions and mixed numbers? How are integers written, compared, classified and ordered?	Ch9: Dividing Fractions and Mixed Numbers Ch10: Integers	Understanding Division of Fractions -Dividing a Whole Number by a Fraction -Dividing Fractions -Estimating Quotients -Dividing Mixed Numbers -Solving Equations -Problem Solving - Multiple-Step -Problems and Look for a Pattern Understanding Integers -Comparing and Ordering Integers -Rational Numbers on a Number Line -Adding Integers -Subtracting Integers -Multiplying Integers	*Envison Math* Textbook *Envison Math* workbook White Boards Online Text on Smartboard Visuals Ipads Khan Academy ixl middle school math Chapter Study Guides and Practice Quizzes www.pearsonsuccessnet.com	Weekly Quizzes Homework Checks Guided Practice End of the chapter exam	6.NS.1 6.NS.2 6.EE.7 6.NS.5 6.NS.6 6.NS.6.a 6.NS.6.b 6.NS.6.c 6.NS.7 6.NS.7.a 6.NS.7.b 6.NS.7.c 6.NS.7.d 6.NS.8 6.G.3

			-Dividing Integers -Solving Equations with Integers -Absolute Value -Graphing Points on a Coordinate Plane		
February	How can angles, triangles, and quadrilaterals be measured, described, classified, and named? What are the customary measurement units and metric measurement units related?	Ch 11: Geometry and Properties of Two-Dimensional Figures Ch 16: Measurement	Understanding Geometric Properties -Translations -Reflections and Symmetry Rotations -Transformation and Congruence -Transformations and Similarity Polygons -Properties of Prisms, Cylinders, Pyramids, Cones and Spheres -Exploring Similar Solids -Converting Customary Units of Length -Converting Customary Units of Capacity -Converting Customary Units of Weight -Converting Metric Units of Length -Converting Metric Units of Capacity -Converting Metric Units of Mass	*Envison Math* Textbook *Envison Math* workbook White Boards Online Text on Smartboard Visuals Ipads Khan Academy ixl middle school math Chapter Study Guides and Practice Quizzes www.pearsonsuccessnet.com	Weekly Quizzes Homework Checks Guided Practice End of the chapter exam	8.G.1.a 8.G.1.b 8.G.1.c 8.G.7 8.G.9

| March | How can units and formulas measure and solve the perimeter and area of regular and irregular polygons? | Ch 17: Perimeter and Area | Measurement Continued
-Perimeter
-Area of Rectangles and Irregular Figures
-Area of Parallelograms and Triangles
-Finding Area of Polygons Circumference
-Area of a Circle | *Envison Math* Textbook
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Homework Checks

Guided Practice

End of the chapter exam | 6.EE.2.c
6.EE.7
6.G.1

6.G.2 |
| | How can units and formulas measure, classify and solve the surface area and volume of polyhedrons? | Ch 18: Volume and Surface Area | -Solid Figures
-Surface Area
-Volume of Rectangular Prisms
-Volume of Rectangular Prisms
-Volume of Triangular Prisms and Cylinders
-Problem Solving: Use Objects and Reasoning | ixl middle school math

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April	How do ratios and rates describe real world scenarios (unit price)?	Ch 12: Ratios, Rates	Understanding similarities and differences between Ratios and Fractions -Equal Ratios and Proportions -Understanding Rates and Unit Rates -Comparing Rates -Distance, Rate, and Time -Problem Solving: Draw a Diagram or Picture	*Envison Math* Textbook *Envison Math* workbook White Boards Online Text on Smartboard Visuals Ipads Khan Academy ixl middle school math	Weekly Quizzes Homework Checks Guided Practice End of the chapter exam	6.RP.1 6.RP.3.a 6.RP.2 6.RP.3.b 6.RP.1 6.RP.2 6.RP.3
	How can proportions model and solve problems involving rates, scales and similarity?	Ch 13: Solving Proportions	-Using Ratio Tables -Using Unit Rates -Applying Ratios -Ways to Solve Proportion -Problem Solving: Writing to Explain	Chapter Study Guides and Practice Quizzes www.pearsonsuccessnet.com		6.RP.3 6.RP.3.a 6.RP.2; 6.RP.3.b
	How do percents represent and express fractions?	Ch 14: Percent	-Understanding Percent -Fractions, Decimals, and Percent -Percents Greater than 100 and Less than 1 -Estimating Percent -Finding the Percent of a Number			6.RP.3 6.RP.3.c
May	How can line plots be used to represent data and answer questions?	Ch 15: Graphing Equations	Organizing Data -Ordered Pairs -Distances on a Coordinate Plane -Equations with More Than One Operation -Patterns and Equations -Graphing Equations -Understanding Inequalities	*Envison Math* Textbook *Envison Math* workbook White Boards Online Text on Smartboard Visuals Ipads Khan Academy ixl middle school math	Weekly Quizzes Homework Checks Guided Practice End of the chapter exam	6.EE.7 6.EE.9 6.EE.5 6.EE.8
	How can numbers be used to describe certain data	Ch 19: Data and Graphing	-Scatter Plots -Analyzing Scatter Plots			

			-Modeling Data with Lines and Bars -Two-Way Tables	Chapter Study Guides and Practice Quizzes www.pearsonsuccessnet.com		
June	How is probability related to mean, median, mode and range?	Ch 20: Probability	-Counting Methods -Combinations -Theoretical Probability -Experimental Probability -Independent and Dependent Events	*Envison Math* Textbook *Envison Math* workbook White Boards Online Text on Smartboard Visuals Ipads Khan Academy ixl middle school math Chapter Study Guides and Practice Quizzes www.pearsonsuccessnet.com	Weekly Quizzes Homework Checks Guided Practice End of the chapter exam	8.SP.1 8.SP.2 8.SP.3 8.SP.4

Overarching Questions all Year:

How are everyday activities
accomplished with the help of
mathematical models?

What do individuals do to solve
problems successfully?

How can we use our math skills and
concepts to live more efficiently in our world?