## Saint Theresa of Avila School- West Roxbury, MA

Curriculum Maps

Subject:	Grade:
Math	Four

Essential	Торіс	Content	Resources	Assessments	Standards
Question(s)					
How can patterns be use to find some multiplication facts? How can unknown multiplication be found by breaking them into known facts?	Introduction to Grade Four Mathematics Multiplication and Division: Meanings and Facts	<ul> <li>Meanings of Multiplication</li> <li>Patterns for Facts</li> <li>Multiplication Properties</li> <li>3, 4, 6, 7, and 8 as Factors</li> <li>Problem Solving: Look for a Pattern</li> <li>Meanings of Division</li> <li>Relating Multiplication and Division</li> <li>Special Quotients</li> <li>Using Multiplication Factors</li> </ul>	<ul> <li>Evision student workbook</li> <li>Envision student textbook</li> <li>Envision teacher textbook</li> <li>Envision teacher workbook</li> <li>Pearson Envision online program</li> <li>IXL online</li> </ul>	Topic Test Individual Conferences	4.0A.1 4.0A.3 4.0A.4 4.0A.5
How can unknown division facts be found by thinking about a related multiplication fact?		<ul> <li>Using Multiplication Facts to Find Division Facts</li> <li>Problem Solving: Draw a Picture and Write an Equation</li> </ul>	<ul> <li>NC online</li> <li>Supplemental math materials</li> <li>Manipulatives</li> <li>Math notebook</li> </ul>		
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?	Generate and Analyze Patterns Place Value	<ul> <li>Repeating Patterns</li> <li>Number Sequences</li> <li>Extending Tables</li> <li>Writing Rules for Situations</li> <li>Geometric Patterns</li> <li>Problem Solving: Act It Out and Use Reasoning</li> <li>Representing Numbers</li> <li>Place Value Relationships</li> <li>Comparing Numbers</li> <li>Ordering Numbers</li> <li>Rounding Whole Numbers</li> <li>Problem Solving: Make an Organized List</li> </ul>	<ul> <li>Evision student workbook</li> <li>Envision student textbook</li> <li>Envision teacher textbook</li> <li>Envision teacher workbook</li> <li>Pearson Envision online program</li> <li>IXL online</li> <li>Supplemental math materials</li> <li>Manipulatives</li> <li>Math notebook</li> </ul>	Topic Test Individual Conferences	4.OA.3 4.OA.5 4.NBT.1 4.NBT.2 4.NBT.3
	Essential Question(s) How can patterns be use to find some multiplication facts? How can unknown multiplication be found by breaking them into known facts? How can unknown division facts be found by thinking about a related multiplication fact? 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?	Essential Question(s)TopicHow can patterns be use to find some multiplication facts?Introduction to Grade Four MathematicsHow can unknown multiplication be found by breaking them into known facts?Multiplication and Division: Meanings and FactsHow can unknown division facts be found by thinking about a related multiplication fact?Multiplication and Division: Meanings and FactsHow can patterns be used to describe how two quantities are related?Generate and Analyze PatternsHow can a relationship between two quantities be shown using a table?Place ValueHow are greater numbers read and written?Place Value	Essential Question(s)TopicContentHow can patterns be use to find some multiplication facts?Introduction to Grade Four Mathematics• Meanings of Multiplication • Patterns for Facts • Multiplication Properties • 3, 4, 6, 7, and 8 as Factors • Problem Solving: Look for a Pattern • Meanings of Division • Relating Multiplication facts be found by treaking them into known facts?How can unknown division facts be found by thinking about a related multiplication fact?Multiplication and Division: Meanings and Facts• Meanings of Division • Relating Multiplication Facts to Find Division Facts • Using Multiplication Facts to Find Division FactsHow can unknown division facts be found by thinking about a related multiplication fact?Generate and Analyze Patterns• Repeating Patterns • Number Sequences • Extending Tables • Writing Rules for Situations • Geometric Patterns • Problem Solving: Act It Out and Use Reasoning • Representing Numbers • Place Value• Representing Numbers • Problem Solving: Make an Organized List	Essential Question(s)TopicContentResourcesQuestion(s)TopicContentResourcesHow can patterns be use to find some multiplication facts?Introduction to Grade Four Mathematics• Meanings of Multiplication • Patterns for Facts• Evision student workbookHow can unknown multiplication be found by breaking them into known facts?Introduction and Division Meanings and Facts• Meanings of Division • Relating Multiplication Facts • Dipecial Quotients • Using Multiplication Facts • Problem Solving: Draw a Picture and Write an Equation• Evision student textbook • Envision teacher textbook • Envision teacher workbook • Envision teacher textbook • Pearson Envision • Number Sequences • Extending Tables • Problem Solving: Act It Out and Use Reasoning • Representing Numbers • Problem Solving: Act It Out and Use Reasoning • Representing Numbers • Problem Solving: Act It Out and Use Reasoning • Representing Numbers • Problem Solving: Make an Organized List• Evision teacher workbook • Envision teacher workbook 	Essential Question(s)TopicContentResourcesAssessmentsHow can patterns be use to find some multiplication facts?Introduction to Grade Four Mathematics• Meanings of Multiplication • Patterns for Facts • Multiplication Properties • 3, 4, 6, 7, and 8 as Factors • Problem Solving: Look for a Pattern• Evision student workbook • Envision teacher textbook • Envision teacher workbook • Envision teacher workbook • Envision teacher workbook • Parson Envision • Parson Envision teacher • Problem Solving: Orav a • Problem Solving: Carw a • Problem Solving: Make an • Problem Solving: Mak

	How can whole numbers be compared and ordered?					
November	How can sums and differences of whole numbers be estimated? What are standard procedures for adding and subtracting whole numbers?	Addition and Subtraction of Whole Numbers	<ul> <li>Using Mental Math to add and Subtract</li> <li>Estimating Sums and Differences of Whole Numbers</li> <li>Adding Whole Numbers</li> <li>Subtracting Whole Numbers</li> <li>Subtracting Across Zeroes</li> <li>Problem Solving: Draw a Picture and Write and Equation</li> </ul>	<ul> <li>Evision student workbook</li> <li>Envision student textbook</li> <li>Envision teacher textbook</li> <li>Envision teacher workbook</li> <li>Pearson Envision online program</li> <li>IXL online</li> <li>Supplemental math materials</li> <li>Manipulatives</li> <li>Math notebook</li> </ul>	Topic Test Individual Conferences	4.NBT.3 4.NBT.4 4.OA.3
December	How can some products be found mentally? How can products be estimated?	Number Sense: Multiplying by 1-Digit Numbers	<ul> <li>Arrays and Multiplying by 10 and 100</li> <li>Multiplying by Multiples of 10 and 100</li> <li>Breaking apart to Multiply</li> <li>Using Mental Math to Multiply</li> <li>Using Rounding to Estimate</li> <li>Problem Solving: Reasonableness</li> </ul>	<ul> <li>Evision student workbook</li> <li>Envision student textbook</li> <li>Envision teacher textbook</li> <li>Envision teacher workbook</li> <li>Pearson Envision online program</li> <li>IXL online</li> <li>Supplemental math materials</li> <li>Manipulatives</li> <li>Math notebook</li> </ul>	Topic Test Individual Conferences	4.NBT.3 4.NBT.5 4.OA.3
January	How can arrays be used to find products?	Developing Fluency: Multiplying by 1-Digit Numbers	<ul> <li>Arrays and Using an Expanded Algorithm</li> <li>Connecting the Expanded and Standard Algorithms</li> <li>Multiplying 2-Digit and 1-</li> </ul>	<ul> <li>Evision student workbook</li> <li>Envision student textbook</li> <li>Envision teacher</li> </ul>	Topic Test Individual Conferences	4.NBT.5 4.NBT.3 4.OA.3

	What is a standard procedure for multiplying 1-Digit numbers?		<ul> <li>Digit Numbers</li> <li>Multiplying 3- and 4-Digit by 1-Digit numbers</li> <li>Multiplying by 1-Digit Numbers</li> <li>Problem Solving: Missing or Extra Information</li> </ul>	textbook • Envision teacher workbook • Pearson Envision online program • IXL online • Supplemental math materials • Manipulatives • Math notebook		
February	How can greater products be found mentally? How can greater products be estimated?	Number Sense: Multiplying by 2-Digit Numbers	<ul> <li>Arrays and Multiplying by 2- Digit Number by Multiples of 10</li> <li>Using Mental Math to Multiply 2-Digit Numbers</li> <li>Using Rounding to Estimate</li> <li>Using Compatible Numbers to Estimate</li> <li>Problem Solving: Multiple- Step Problems</li> </ul>	<ul> <li>Evision student workbook</li> <li>Envision student textbook</li> <li>Envision teacher textbook</li> <li>Envision teacher workbook</li> <li>Pearson Envision online program</li> <li>IXL online</li> <li>Supplemental math materials</li> <li>Manipulatives</li> <li>Math notebook</li> </ul>	Topic Test Individual Conferences	4.NBT3 4.NBT.5 4.OA.3
March	How can arrays be used to find greater products? What is a standard procedure for multiplying multi- digit numbers? What are different meanings of division? How can mental	Developing Fluency: Multiplying by 2-Digit Numbers Number Sense: Dividing by 1-Digit Divisors	<ul> <li>Arrays and Multiplying 2-Digit Numbers</li> <li>Arrays and an Expanded Algorithm</li> <li>Multiplying 2-Digit Numbers by Multiples of 10</li> <li>Multiplying 2-Digit Numbers by 2-Digit Numbers</li> <li>Problem Solving: Two- Question Problems</li> <li>Estimating Quotients</li> <li>Estimating Quotients for Greater Dividends</li> <li>Dividing with Remainders</li> <li>Multiplication and Division</li> </ul>	<ul> <li>Evision student workbook</li> <li>Envision student textbook</li> <li>Envision teacher textbook</li> <li>Envision teacher workbook</li> <li>Pearson Envision online program</li> <li>IXL online</li> <li>Supplemental math materials</li> <li>Manipulatives</li> <li>Math notebook</li> </ul>	Topic Test Individual Conferences	4.NBT.5 4.OA.3 4.NBT.6 4.NBT.5 4.OA.2 4.OA.3
	How can mental		<ul><li>Dividing with Remainders</li><li>Multiplication and Division</li></ul>	<ul><li>Manipulatives</li><li>Math notebook</li></ul>		4.OA.3

	math and estimation be used		Stories <ul> <li>Problem Solving: Draw and</li> </ul>			
	to divide?		Picture and Write an Equation			
April	How can repeated subtraction be used to model division? What is the standard procedure for dividing multi-digit numbers?	Developing Fluency: Dividing by 1-Digit Divisors	<ul> <li>Using Objects to Divide: Division as Repeated Subtraction</li> <li>Division as Repeated Subtraction</li> <li>Using Objects to Divide: Division as Sharing</li> <li>Dividing 2-Digit by 1-Digit Numbers</li> <li>Dividing 3-Digit by 1-Digit Numbers</li> <li>Deciding Where to Start Dividing</li> <li>Dividing 4-Digit by 1-Digit Numbers</li> <li>Problem Solving: Multiple- Stap Problems</li> </ul>	<ul> <li>Evision student workbook</li> <li>Envision student textbook</li> <li>Envision teacher textbook</li> <li>Envision teacher workbook</li> <li>Pearson Envision online program</li> <li>IXL online</li> <li>Supplemental math materials</li> <li>Manipulatives</li> <li>Math notebook</li> </ul>	Topic Test Individual Conferences	4.NBT.6 4.NBT.1 4.NBT.5 4.OA.3
May	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 the standard procedure for adding and subtracting	Fraction Equivalence and Ordering Adding and Subtracting Fractions and Mixed Numbers with Like Denominators	<ul> <li>Factors</li> <li>Fractors</li> <li>Prime and Composite Numbers</li> <li>Multiples</li> <li>Equivalent Fractions</li> <li>Number Lines and Equivalent Fractions</li> <li>Comparing Fractions</li> <li>Ordering Fractions</li> <li>Ordering Fractions</li> <li>Problem Solving: Writing to Explain</li> <li>Modeling Addition of Fractions</li> <li>Adding Fractions with Like Denominators</li> <li>Modeling Subtraction of Fractions</li> <li>Subtracting Fractions with Like Denominators</li> <li>Adding and Subtracting on the Number Line</li> <li>Improper Fractions and</li> </ul>	<ul> <li>Evision student workbook</li> <li>Envision student textbook</li> <li>Envision teacher textbook</li> <li>Envision teacher workbook</li> <li>Pearson Envision online program</li> <li>IXL online</li> <li>Supplemental math materials</li> <li>Manipulatives</li> <li>Math notebook</li> </ul>	Topic Test Individual Conferences	4.NF.1 4.NF.2 4.OA.4 4.OA.5 4.NF.3 4.NF.3.a 4.NF.3.b 4.NF.3.c 4.NF.3.d

	fractions and mixed numbers with like denominators? How can fractions and mixed numbers be added and subtracted on a number line?		<ul> <li>Mixed Numbers</li> <li>Modeling Addition and Subtraction of Mixed Numbers</li> <li>Adding Mixed Numbers</li> <li>Subtracting Mixed Numbers</li> <li>Decomposing Fractions</li> <li>Problem Solving: Draw a Picture and Write an Equation</li> </ul>			
June	How is decimal numeration related to whole number numeration? How can decimals be compared and ordered? How are fractions and decimals related?	Extending Fraction Concepts	<ul> <li>Fractions as Multiples of Unit Fractions: Using Models</li> <li>Multiplying a Fraction by a Whole Number: Using Models</li> <li>Multiplying a Fraction by a Whole Number: Using Symbols</li> <li>Fractions and Decimals</li> <li>Fractions and Decimals on the Number Line</li> <li>Equivalent Fractions and Decimals</li> <li>Decimal Place Value</li> <li>Comparing and Ordering Decimals</li> <li>Using Money to Understand Decimals Problem Solving: Draw a Picture</li> </ul>	<ul> <li>Evision student workbook</li> <li>Envision student textbook</li> <li>Envision teacher textbook</li> <li>Envision teacher workbook</li> <li>Pearson Envision online program</li> <li>IXL online</li> <li>Supplemental math materials</li> <li>Manipulatives</li> <li>Math notebook</li> </ul>	Topic Test Individual Conferences	4.NF.4 4.NF.4.a 4.NF.4.b 4.NF.5 4.NF.5 4.NF.6 4.NF.7 4.MD.1 4.MD.2