Curriculum Map

Subject: Math			Grade: 4	

Time Frame	Topic	Content	Resources	Standards	Assessment
September	Topic #1-Multiplication and Division: Meaning and facts	*Meanings of Multiplication *Patterns for Facts *Multiplication Properties *3,4,6,7 and 8 as Factors *Meanings of Division *Relating Multiplication and Division *Special Quotients *Using Multiplication Facts to find Division Facts *Problem Solving-Look for Pattern, Draw a Picture and Write an Equation	Textbooks Practice Workbooks Digital Path Calculators Number Lines Visuals Manipulatives	4.OA.!, 4.OA.2, 4.OA.3, 4.OA.4, 4.OA.5	Quick Check Daily Spirals Topic Tests White Boards Observation Board Work Math Buddies
	Topic #2- Generalize and Analyze Patterns	*Repeating Patterns *Number Sequences *Extending Tables *Writing Rules for Situations *Geometric Patterns *Problem Solving-Act It Out and Use Reasoning			

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October	Topic #3- Place Value	*Representing Numbers *Place Value Relationships *Comparing Numbers *Ordering Numbers *Rounding Whole Numbers *Problem Solving-Make an Organized List	Textbooks Practice Workbooks Digital Path Calculators Number Lines Visuals Manipulatives	4.NBT.1, 4.NBT.2, 4.NBT.3, 4.NBT.4, 4.OA.3	Quick Check Daily Spirals Topic Tests White Boards Observation Board Work Math Buddies
	Topic #4-Addition and Subtraction of Whole Numbers	*Using Mental Math to Add and Subtract *Estimating Sums and Differences of Whole Numbers *Adding Whole Numbers *Subtracting Whole Numbers *Subtracting Across Zeros *Problem Solving-Draw a Picture and Write an Equation			

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Time Frame	Topic	Content	Resources	Standards	Assessment
November	Topic #5- Number Sense: Multiplying by 1-Digit Numbers	*Arrays and Multiplying by 10 and 100 *Multiplying by Multiples of 10 and 100 *Breaking Apart to Multiply *Using Mental Math to Multiply *Using Rounding to Estimate *Problem Solving-Reasonableness	Textbooks Practice Workbooks Digital Path Calculators Number Lines Visuals Manipulatives	4.NBT.3, 4.OA.3, 4.NBT.5	Quick Check Daily Spirals Topic Tests White Boards Observation Board Work Math Buddies
	Topic #6- Developing Fluency: Multiplying by 1-Digit Numbers	*Arrays and Using an Expanded Algorithm *Connecting the Standard and Expanded Algorithms *Multiplying 2-Digit by 1-Digit Numbers *Multiplying 3-and-4-Digit by 1-Digit Numbers *Multiplying by 1-Digit Numbers *Problem Solving-Missing or Extra Information			

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Time Frame	Topic	Content	Resources	Standards	Assessment
December	Topic #7- Number Sense: Multiplying by 2-Digit Numbers	*Arrays and Multiplying 2-Digit Numbers by Multiples of 10 *Using Mental Math to Multiply 2-Digit Numbers *Using Rounding to Estimate *Using Compatible Numbers to Estimate *Problem Solving-Multiple-Step Problems	Textbooks Practice Workbooks Digital Path Calculators Number Lines Visuals Manipulatives	4.NBT.3, 4.NBT.5, 4.OA.3	Quick Check Daily Spirals Topic Tests White Boards Observation Board Work Math Buddies

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Time Frame	Topic	Content	Resources	Standards	Assessment
January	Topic #8- Developing Fluency: Multiplying by 2-Digit Numbers	*Arrays and Multiplying 2-Digit Numbers *Arrays and an Expanded Algorithm *Multiplying 2-Digit Numbers by Multiples of 10 *Multiplying 2-Digit Numbers by 2-Digit Numbers Problem Solving – Two-Question Problems	Textbooks Practice Workbooks Digital Path Calculators Number Lines Visuals Manipulatives	4.NBT.5, 4.OA.3, 4.OA.2, 4.NBT.6	Quick Check Daily Spirals Topic Tests White Boards Observation Board Work Math Buddies
	Topic #9- Number Sense: Dividing by 1-Digit Divisors	*Using Mental Math to Divide *Estimating Quotients *Estimating Quotients for Greater Dividends *Dividing with Remainders *Multiplication and Division Stories			

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February	Topic #10- Developing Fluency: Dividing by 1-Digit Divisors	*Problem-Solving – Write an Equation and Draw a Picture *Using Objects to Divide: Division as Repeated Subtraction *Division as Repeated Subtraction *Using Objects to Divide: Division as Sharing *Dividing 2-Digit by 1-Digit Numbers *Dividing 3-Digit by 1-Digit Numbers *Deciding Where to Start Dividing *Dividing 4-Digit by 1-Digit Numbers *Problem-Solving – Multiple-Step Problems	Textbooks Practice Workbooks Digital Path Calculators Number Lines Visuals Manipulatives	4.NBT.1, 4.OA.3, 4.NBT.5, 4.NBT.6	Quick Check Daily Spirals Topic Tests White Boards Observation Board Work Math Buddies

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Time Frame	Topic	Content	Resources	Standards	Assessment
March	Topic #11- Fraction Equivalence and Ordering	*Factors *Prime and Composite Numbers *Multiples *Equivalent Fractions *Comparing Fractions *Ordering Fractions *Problem Solving-Writing to Explain	Textbooks Practice Workbooks Digital Path Calculators Number Lines Visuals Manipulatives	4.OA.4, 4.OA.5, 4.NF.1, 4.NF.2	Quick Check Daily Spirals Topic Tests White Boards Observation Board Work Math Buddies
	Topic #12- Adding and Subtracting Fractions and Mixed Numbers	*Modeling Addition of Fractions *Adding Fractions with Like Denominators *Modeling Subtraction of Fractions		4.NF.3, 4.NF.3.a, 4.NF.3.b,	

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	with Like Denominators	*Subtracting Fractions with Like Denominators *Adding and Subtracting on the Number Line *Improper Fractions and Mixed Numbers *Modeling Addition and Subtraction of Mixed Numbers *Adding Mixed Numbers *Subtracting Mixed Numbers *Decomposing and Composing Fractions *Problem-Solving – Draw a Picture and Write an Equation		4.NF.3.c, 4.NF.3.d	
April	Topic #13- Extending Fraction Concepts	*Fractions as Multiples of Unit Fractions: Using Models *Multiplying a Fraction by a Whole Number: Using Models *Multiplying a Fraction by a Whole Number: Using Symbols *Fractions and Decimals *Fractions and Decimals on the Number Line *Equivalent Fractions and Decimals *Decimal Place Value *Comparing and Ordering Decimals	Textbooks Practice Workbooks Digital Path Calculators	4.NF.4.a, 4.NF.4.b, 4.NF.4.c, 4.NF.5, 4.NF.6, 4.NF.7, 4.MD.2	Quick Check Daily Spirals Topic Tests White Boards Observation Board Work Math Buddies

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May	Topic #14- Measurement Units and Conversions	*Using Money to Understand Decimals *Problem Solving – Draw a Picture *Using Customary Units of Length *Customary Units of Capacity *Units of Weight *Changing Customary Units *Using Metric Units of Length *Metric Units of Capacity *Units of Mass *Changing Metric Units *Units of Time *Problem Solving – Writing to Explain and Work Backward	Number Lines Visuals Manipulatives	4.MD.1, 4.MD.2	
	Topic #15- Solving Measurement Problems	*Solving Perimeter and Area Problems *Solving Measurement Problems *Solving Problems Involving Money *Solving Problems Involving Line Plots *Problem Solving – Solve a Simpler Problem and Make a Table	Textbooks Practice	4.MD.2, 4.MD.3, 4.MD.4	Quick Check Daily Spirals Topic Tests White Boards Observation Board Work Math Buddies

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	Topic #16- Lines, Angles, and Shapes	*Points, Lines, and Planes *Line Segments, Rays and Angles *Understanding Angles and Unit Angles *Measuring with Unit Angles *Measuring Angles *Adding and Subtracting Angle Measures *Polygons *Triangles *Quadrilaterals *Line Symmetry *Problem Solving – Make and Test Generalizations	Workbooks Digital Path Calculators Number Lines Visuals Manipulatives	4.G.1, 4.G.2, 4.G.3, 4.MD.5.a, 4.MD.5.b, 4.MD.6, 4.MD.7	