Illustrative Mathematics: 5th Grade Pacing Guide

Major Supporting Additional

Unit 1- Finding Volume (16 Days)

Date		Lesson	Standards
___/___/___	Section A: Unit Cubes and Volume	L1: What is Volume?	5.MD.C.3
___/___/___		L2: Measure Volume	5.MD.C.3, 5.MD.C.4
___/___/___		L3: Volumes of Prism Drawings	5.MD.C.4
___/___/___		L4: Use Layers to Determine Volume	5.MD.C.5, 5.OA.A.2
___/___/___		*Section A- Checkpoint Assessment*	5.MD.C.5, 5.OA.A.2
___/___/___	Section B: Volume Formulas	L5: Side Lengths of Rectangular Prisms	5.MD.C.5
___/___/___		L6: Expressions for Volume	5.MD.C.5, 5.OA.A.1, 5.OA.A.2
___/___/___		L7: Cubic Units of Measure	5.MD.C.4
___/___/___		*Section B- Checkpoint Assessment*	5.MD.C.5, 5.OA.A.1, 5.OA.A.2
___/___/___	Section C: Volume of Solid Figures	L8: Figures Made of Prisms	5.MD.C.5
___/___/___		L9: Measure Figures Made From Prisms	5.MD.C.5, 5.OA.A.2
___/___/___		L10: Represent Volume with Expressions	5.MD.C.5, 5.OA.A.1, 5.OA.A.2
___/___/___		L11: All Kinds of Prisms	5.MD.C, 5.MD.C.5
___/___/___		L12: Lots and Lots of Garbage *Optional Lesson*	5.MD.C.5
___/___/___		*Section C- Checkpoint Assessment*	5.MD.C.5, 5.OA.A.1, 5.OA.A.2
___/___/___	End-Unit Assessment		

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Major Supporting Additional

Unit 2 – Fractions as Quotients and Fraction Multiplication (21 Days)

Date		Lesson	Standards
___/___/___	Section A: Fraction as Quotients	L1: Share Sandwiches	5.NF.B.3
___/___/___		L2: Share More Sandwiches	5.NF.B.3
___/___/___		L3: Interpret Equations	5.NF.B.3
___/___/___		L4: Division Situations	5.NF.B.3
___/___/___		L5: Relate Division and Fractions	5.NF.B.3
___/___/___		*Section A- Checkpoint Assessment*	4.NF.A.1
___/___/___	Section B: Fractions of Whole Numbers	L6: Relate Division and Multiplication	4.NF.B.4, 5.NF.B.3, 5.OA.A.2
___/___/___		L7: Divide to Multiply Unit Fractions	5.NF.B.3, 5.NF.B.4
___/___/___		L8: Divide to Multiply Non-Unit Fractions	5.NF.B.3, 5.NF.B.4, 5.OA.A.2
___/___/___		*Section B- Checkpoint Assessment*	5.NF.B.3, 5.NF.B.4, 5.OA.A.2
___/___/___	Section C: Area and Fractional Side Lengths	L9: Relate Area to Multiplication	5.NF.B.4
___/___/___		L10: Fractional Side Lengths Less Than 1	5.NF.B.3, 5.NF.B.4

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Major Supporting Additional

Date		Lesson	Standards
___/___/___		L11: Fractional Side Lengths Greater Than 1	5.NF.B.3, 5.NF.B.4
___/___/___		L12: Decompose Rectangles	5.NF.B.4
___/___/___		L13:Area and Properties of Operations	5.NF.B.4, 5.OA.A.1
___/___/___		L14: Area Situations	5.NF.B.4
___/___/___		L15: Multiply More Fractions	5.NF.B.3, 5.NF.B.4
___/___/___		L16: Estimate Products *Optional Lesson*	5.NF.B.4
___/___/___		L17: Mosaic Pictures *Optional Lesson*	5.NF.A.1, 5.NF.B.4
___/___/___		*Section C- Checkpoint Assessment*	5.NF.A.1, 5.NF.B.4
___/___/___	End-Unit Assessment		

Unit 3 – Multiplying and Dividing Fractions (24 Days)

Date		Lesson	Standards
___/___/___		L1: One Piece of One Part	5.NF.B.4
___/___/___		L2: Represent Unit Fraction Multiplication	5.NF.B.4
___/___/___	Section A: Fraction Multiplication	L3: Multiply Unit Fractions	5.NF.B.4
___/___/___		L4: Situations about Multiplying Fractions	5.NF.B.4
___/___/___		L5: Multiply a Unit Fraction by a Non-Unit Fraction	5.NF.B.4
___/___/___		L6: Multiply Fractions	5.NF.B.4

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Date	Section	Lesson	Standard
___/___/___		L7: Generalize Fraction Multiplication	5.NF.B.4
___/___/___		L8: Apply Fraction Multiplication	5.NF.B.4, 5.NF.B.6
___/___/___		L9: My Own Flag *Optional Lesson*	5.NF.B.6
___/___/___		*Section A- Checkpoint Assessment*	5.NF.B.4, 5.NF.B.6
___/___/___	Section B: Fraction Division	L10: Concepts of Division *Optional Lesson*	5.NF.B.6
___/___/___		L11: Divide Unit Fractions by Whole Numbers	5.NF.B.7
___/___/___		L12: Represent Division of Unit Fractions by Whole Numbers	5.NF.B.7
___/___/___		L13: Divide Whole Number by Unit Fractions	5.NF.B.7
___/___/___		L14: Represent Division of Whole Numbers by Unit Fractions	5.NF.B.7
___/___/___		L15: Fraction Division Situations	5.NF.B.7
___/___/___		L16: Reason About Quotients	5.NF.B.7
___/___/___		*Section B- Checkpoint Assessment*	5.NF.B.7
___/___/___	Section C: Problem Solving with Fractions	L17: Fraction Multiplication and Division Situations	5.NF.B.4, 5.NF.B.6, 5.NF.B.7
___/___/___		L18: Represent Situations with Multiplication and Division	5.NF.B.4, 5.NF.B.6, 5.NF.B.7
___/___/___		L19: Fraction Games	5.NF.B.4, 5.NF.B.6, 5.NF.B.7
___/___/___		L20: How Much in the Group? *Optional Lesson*	5.NF.B.7
___/___/___		*Section C- Checkpoint Assessment*	5.NF.B.4, 5.NF.B.6, 5.NF.B.7

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Major Supporting Additional

___/___/___	End-Unit Assessment

Unit 4 – Wrapping Up Multiplication and Division with Multi-Digit Numbers (25 Days)

Date		Lesson	Standards
___/___/___	Section A:	L1: Estimate and Find Products	5.NBT.B

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Major Supporting Additional

___/___/___	Multi-Digit Multiplication and Using the Standard Algorithm	L2: Partial Products in Diagrams	5.NBT.B
___/___/___		L3: Partial Products in Algorithms	5.OA.A.2
___/___/___		L4: Standard Algorithm: One-Digit and Multi-Digit Numbers with Composing	5.NBT.B.5
___/___/___		L5: Standard Algorithm: Multi-Digit Numbers without Composing	5.NBT.B.5
___/___/___		L6: Standard Algorithm: Multi-DIgit Numbers with Composing	5.NBT.B.5
___/___/___		L7: Build Multiplication Fluency	5.NBT.B.5
___/___/___		L8: Multiplication Fluency	5.NBT.B.5, 5.NF.B.4
___/___/___		L9: The Birds	5.MD.C.3, 5.MD.C.5, 5.NBT.B.5
___/___/___		*Section A: Checkpoint Assessment*	5.MD.C.3, 5.MD.C.5, 5.NBT.B.5
___/___/___	Section B: Multi-Digit Division using Partial Quotients	L10: World's Record Folk Dance	5.NBT.B.6
___/___/___		L11: Different Partial Quotients	5.NBT.B.6, 5.OA.A.2
___/___/___		L12: An Algorithm Using Partial Quotients	5.NBT.B.6
___/___/___		L13: Divide Using Partial Quotients	5.NBT.B.6
___/___/___		L14: Practice an Algorithm Using Partial Quotients	5.NBT.B.6
___/___/___		L15: Find Missing Side Lengths	5.NBT.B.5, .NBT.B.6
___/___/___		L16: World's Record Noodle Soup	5.NBT.B.6, 5.NF.B.3
___/___/___		L17: Fractions as Partial Quotients *Optional Lesson*	5.OA.A.2

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Major Supporting Additional

___/___/___		Section B: Checkpoint Assessment	5.NBT.B.5, 5.NBT.B.6
___/___/___	Section C: Let's Put it to Work	L18: Lots of Milk	5.MD.C.5
___/___/___		L19:Trash Talk	5.NBT.B.5
___/___/___		L20: Shipping Trash	5.MD.C.5, 5.NBT.B.5, 5.NBT.B.6
___/___/___		L21:Food Waste Journal *Optional Lesson*	5.MD.C, 5.MD.C.5, 5.NBT.B.5
___/___/___		Section C- Checkpoint Assessment	5.MD.C, 5.MD.C.5, 5.NBT.B.5
___/___/___	End-Unit Assessment		

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Major Supporting Additional

Unit 5 – Place Value Patterns and Decimal Operations (31 Days)

Date		Lesson	Standards
___/___/___		L1: What is 1 Thousandth?	5.NBT.A, 5.NBT.A.1
___/___/___		L2: Thousandths on Grids and in Words	5.NBT.A, 5.NBT.A.3
___/___/___		L3: Thousandths in Expanded Form	5.NBT.A.1, 5.NBT.A.3, 5.OA.A
___/___/___		L4: Explore Place Value Relationships *Optional Lesson*	5.NBT.A.1, 5.NBT.A.3
___/___/___	Section A: Numbers to Thousandths	L5: Compare Decimals	5.NBT.A.3
___/___/___		L6: Compare Decimals on the Number Line	5.NBT.A.3
___/___/___		L7: Round Doubloons	5.NBT.A.3, 5.NBT.A.4
___/___/___		L8: Round Decimals	5.NBT.A.4
___/___/___		L9: Order Decimals	5.NBT.A.3
___/___/___		L10: Solve Problems with Decimals	5.NBT.A.3, 5.NBT.A.4
___/___/___		*Section A- Checkpoint Assessment*	5.NBT.A.1, 5.NBT.A.3, 5.OA.A
___/___/___	Section B:	L11: Make Sense of Decimal Addition	5.NBT.B.7

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Major Supporting Additional

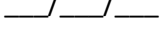|			
___/___/___	Add and Subtract Decimals	L12: Estimate and Add	5.NBT.B.7
___/___/___		L13: Analyze Addition Mistakes	5.NBT.B.7
___/___/___		L14: Make Sense of Decimal Subtraction	5.NBT.B.7
___/___/___		L15: Estimate and Subtract	5.NBT.B.7
___/___/___		L16: Addition and Subtraction	5.NBT.B.7
___/___/___		*Section B: Checkpoint Assessment*	5.NBT.B.7
___/___/___	Section C: Multiply Decimals	L17: Multiply Decimals by Whole Numbers	5.NBT.B.7, 5.OA.A.2
___/___/___		L18: Use Whole Number Facts	5.NBT.B.7, 5.OA.A.1
___/___/___		L19: Use Properties to Multiply Decimals	5.NBT.B.7, 5.OA.A
___/___/___		L20: Products in the Hundredths Place	5.NBT.B.7, 5.NF.B.4
___/___/___		L21: Multiply More Decimals	5.NBT.A.1, 5.NBT.B.7
___/___/___		*Section C- Checkpoint Assessment*	5.NBT.A.1, 5.NBT.B.7
___/___/___	Section D: Divide Decimals	L22: Divide Whole Numbers by 0.1 and 0.01	5.NBT.B.7
___/___/___		L23: Divide Whole Numbers by Decimals	5.NBT.B.7
___/___/___		L24: Divide Decimals by Whole Numbers	5.NBT.B.7
___/___/___		L25: Divide Decimals by Decimals	5.NBT.B.7
___/___/___		L26: Book Drive *Optional Lesson*	5.NBT.A.3, 5.NBT.B.7

Major Supporting Additional
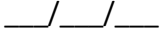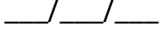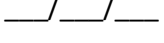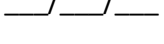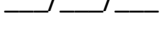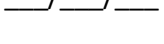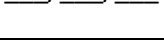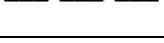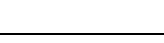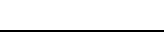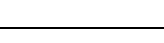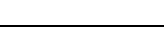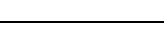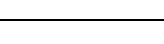
___/___/___		*Section D- Checkpoint Assessment*	5.NBT.A.3, 5.NBT.B.7
___/___/___	End-Unit Assessment		

Unit 6 – More Decimal and Fraction Operations (25 Days)

Date		*Lesson*	*Standards*
___/___/___	Section A: Measurement Conversions and Powers of 10	L1: Place Value Patterns	5.NBT.A.1, 5.NBT.A.2
___/___/___		L2: Powers of 10	5.NBT.A.1, 5.NBT.A.2
___/___/___		L3: Metric Conversion and Multiplication by Powers of Ten	5.MD.A.1, 5.NBT.A.2

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==Major== ==Supporting== ==Additional==

		L4: Metric Conversion and Division by Powers of Ten	5.MD.A.1, ==5.NBT.A.2==
___/___/___		L5: Multi-Step Conversion Problems: Metric Length	5.MD.A.1, ==5.NBT.A.1==
___/___/___		L6: Multi-Step Conversion Problems: Metric Liquid Volume	5.MD.A.1, ==5.NBT.A.1, 5.NBT.A.2==
___/___/___		L7: Multi-Step Conversion Problems: Customary Length	5.MD.A.1
___/___/___		*Section A- Checkpoint Assessment*	5.MD.A.1, ==5.NBT.A.1, 5.NBT.A.2==
___/___/___	Section B: Add and Subtract Fractions with Unlike Denominators	L8: Add and Subtract Fractions	==5.NF.A.1==
___/___/___		L9: Use Equivalent Expressions	==5.NF.A.1, 5.NF.A.2==
___/___/___		L10: All Sorts of Denominators	==5.NF.A.1==
___/___/___		L11: Different Ways to Subtract	==5.NF.A.1==
___/___/___		L12: Solve Problems	==5.NF.A.1, 5.NF.A.2==
___/___/___		L13: Put It All Together: Add and Subtract Fractions	==5.NF.A.1==
___/___/___		L14: Representing Fractions on a Line Plot	5.MD.B.2, ==5.NF.A.1==
___/___/___		L15: Problem Solving with Line Plots	5.MD.B.2, ==5.NF.A.2, 5.NF.B.4==
___/___/___		*Section B- Checkpoint Assessment*	5.MD.B.2, ==5.NF.A.1, 5.NF.A.2==
___/___/___	Section C: The Size of Products	L16: Compare Products	==5.NF.B.5==
___/___/___		L17: Interpret Diagrams	==5.NF.B.5==
___/___/___		L18: Compare Without Multiplying	==5.NF.B.5==

==Major== ==Supporting== ==Additional==

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Major Supporting Additional

___/___/___		L19: Compare to 1	5.NF.B.5
___/___/___		L20: Will it Always Work? *Optional Lesson*	5.NF.B.5, 5.OA.A
___/___/___		L21: Weekend Investigation *Optional Lesson*	5.MD.B.2, 5.NF.A.2, 5.NF.B.4
___/___/___		*Section C- Checkpoint Assessment*	5.MD.B.2, 5.NF.A.2
___/___/___	End-Unit Assessment		

Unit 7 – Shapes on the Coordinate Plane (17 Days)

Date		Lesson	Standards
___/___/___	Section A: The Coordinate Plane	L1: Explore the Coordinate Grid	5.G.A.1
___/___/___		L2: Points on the Coordinate Grid	5.G.A.1
___/___/___		L3: Plot More Points	5.G.A.1
___/___/___		*Section A- Checkpoint Assessment*	5.G.A.1
___/___/___	Section B: The Hierarchy of Shapes	L4: Sort Quadrilaterals	5.G.B.3, 5.G.B.4
___/___/___		L5: Trapezoids	5.G.B.4
___/___/___		L6: Hierarchy of Quadrilaterals	5.G.B.3, 5.G.B.4
___/___/___		L7: Rectangles and Squares	5.G.B.3, 5.G.B.4
___/___/___		L8: Sort Triangles	5.G.B.3, 5.G.B.4
___/___/___		*Section B- Checkpoint Assessment*	5.G.B.3, 5.G.B.4
___/___/___	Section C: Numerical Patterns	L9: Generate Patterns	5.OA.B.3
___/___/___		L10: Interpret Relationships	5.OA.B.3
___/___/___		L11: Patterns and Ordered Pairs	5.OA.B.3

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Date		Lesson	Standards
___/___/___		L12: Represent Problems on the Coordinate Grid	5.G.A.2, 5.OA.A.2
___/___/___		L13: Perimeter and Area of Rectangles	5.G.A.2, 5.NBT.B.7, 5.OA.B.3
___/___/___		*Section C- Checkpoint Assessment*	5.G.A.2, 5.NBT.B.7, 5.OA.B.3
___/___/___	End-Unit Assessment		

Unit 8 – Putting It All Together (19 Days)

Date		Lesson	Standards
___/___/___		L1: Find the Largest Product	5.NBT.B.5
___/___/___		L2: More Multiplication	5.NBT.B.5
___/___/___	Section A: Multiply and Divide Whole Numbers	L3: Factors as a Factor in Our Strategy Choice	5.NBT.B.5
___/___/___		L4: Dive Back into Division	5.G.B.3, 5.G.B.4, 5.NBT.B.6
___/___/___		L5: More Division	5.NBT.B.6
___/___/___		L6: Revisit Volume	5.MD.C.5
___/___/___	Section B: Apply Volume Concepts	L7: Estimating the Volume of the World's Largest Wagon	5.MD.C, 5.NBT.B.5
___/___/___		L8: Filling up the World's Largest Wagon	5.MD.C, 5.NBT.B.5, 5.NBT.B.6
___/___/___		L9: Problem Solving with Volume: Water *Optional Lesson*	5.MD.C.5

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___/___/___	Section C: Fraction and Decimal Operations	L10: Here Comes the Sum	5.NF.A.1
___/___/___		L11: What's the Difference?	5.NF.A.1
___/___/___		L12: Decimal Game Day	5.NBT.B.7
___/___/___		L13: Multiplying Fractions Game Day	5.NF.B.4
___/___/___	Section D: Creation and Design	L14: Notice and Wonder	5.G, 5.MD, 5.NBT, 5.NF, 5.NF.B.3, 5.OA
___/___/___		L15: Estimation Exploration	5.NBT.B.5
___/___/___		L16: Number Talk	5.NBT.B.6
___/___/___		L17: True or False?	5.NF.A.1
___/___/___		L18: Which One Doesn't Belong?	5.MD.C.3
___/___/___	End-Unit Assessment		