Illustrative Mathematics: 3rd Grade Pacing Guide

***Standards that are NOT covered: (You will have to add these in)**

- **3.NPV.3: Read and write whole numbers up to 10,000, using base ten numerals, word form, and a variety of expanded forms.**
- **3.NPV.4: Compare two four-digit numbers using symbols (<, >, =) based on the value of thousands, hundreds, tens and ones in the given numbers.**

Unit 1- Introducing Multiplication (25 Days)

Date		*Lesson*	*Standards*
___/___/___	Section A: Interpret and Represent Data Sets on Scaled Graphs	L1: Make Sense of Data	3.DA.1, 3.DA.2
___/___/___		L2: Represent Data and Solve Problems	3.DA.1, 3.DA.2,
___/___/___		L3: Scaled Picture Graphs	3.DA.1, 3.DA.2
___/___/___		L4: Create Scaled Picture Graphs	3.DA.1, 3.DA.2
___/___/___		L5: Represent Data in Scaled Bar Graphs	3.DA.1, 3.DA.2
___/___/___		L6: Choose a Scale	3.DA.1, 3.DA.2
___/___/___		L7: Answer Questions about Scaled Bar Graphs	3.DA.1, 3.DA.2
___/___/___		L8: More Questions about Scaled Bar Graphs	3.DA.1, 3.DA.2
___/___/___		*Section A- Checkpoint Assessment*	3.DA.1, 3.DA.2
___/___/___	Section B: From Graphs to Multiplication	L9: Multiplication as Equal Groups	3.OA.A.1*No longer a standard
___/___/___		L10: Drawings, Situations, and Diagrams, Oh My!	3.OA.A.1*No longer a standard
___/___/___		L11: Multiplication Expressions	3.CAR.6
___/___/___		L12: Represent and Solve Multiplication Problems	3.CAR.6
___/___/___		L13: Multiplication Equations	3.CAR.6
___/___/___		L14: Write and Solve Equations with Unknowns	3.CAR.6, 3.CAR.8, 3.CAR.5

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___/___/___		L15: More Factors, More Problems	3.CAR.6, 3.CAR.8, 3.CAR.5
___/___/___		*Section B- Checkpoint Assessment*	3.CAR.6, 3.CAR.8, 3.CAR.5
___/___/___	Section C: Represent Multiplication with Arrays and the Commutative Property	L16: Arrange Objects Into Arrays	3.CAR.6
___/___/___		L17: Match and Draw Arrays	3.CAR.6
___/___/___		L18: Represent Arrays with Expressions	3.CAR.6
___/___/___		L19: Solve Problems Involving Arrays	3.CAR.6, 3.CAR.6, 3.CAR.2, 3.CAR.5
___/___/___		L20: The Commutative Property	3.CAR.3
___/___/___		L21: Game Night Seating Plan *Optional Lesson*	3.DA.1, 3.DA.2, 3.CAR.6, 3.CAR.6
___/___/___		*Section C- Checkpoint Assessment*	3.DA.1, 3.DA.2,3.CAR.6, 3.CAR.6
___/___/___	End-Unit Assessment		

Unit 2 – Area and Multiplication (19 Days)

Date		*Lesson*	*Standards*
___/___/___	Section A: Concepts of Area Measurement	L1: What is Area?	3.GM.5
___/___/___		L2: How Do We Measure Area?	3.GM.5
___/___/___		L3: Tile Rectangles	3.GM.5, 3.GM.6
___/___/___		L4: Area of Rectangles	3.GM.6
___/___/___		*Section A- Checkpoint Assessment*	3.GM.5, 3.GM.6
___/___/___	Section B: Relate Area to Multiplication	L5: Represent Products as Areas	3.GM.6, 3.GM.7, 3.CAR.3
___/___/___		L6: Different Square Units (Part 1)	3.GM.6

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___/___/___		L7: Different Square Units (Part 2)	3.GM.6
___/___/___		L8: Area of Rectangles without a Grid	3.GM.6, 3.GM.7, .CAR.3
___/___/___		L9: Measure to Find the Area	3.GM.6, 3.GM.7, 3.CAR.3
___/___/___		L10: Solve Area Problems	3.GM.6, 3.GM.7, 3.CAR.3
___/___/___		L11: Area and the Multiplication Table *Optional Lesson*	3.GM.6, 3.GM.7, 3.CAR.3, 3.CAR.5
___/___/___		*Section B- Checkpoint Assessment*	3.GM.6, 3.GM.7, 3.CAR.3, 3.CAR.5
___/___/___	Section C: Find Area of Figures Composed of Rectangles	L12: Area and Addition	3.GM.6, 3.GM.7
___/___/___		L13: Find the Area of Figures	3.GM.6, 3.GM.7, 3.CAR.1
___/___/___		L14: Find the Area of Figures with Missing Sides	3.GM.6, 3.GM.7
___/___/___		L15: New Room *Optional Lesson*	3.GM.5,3.GM.6, 3.GM.6, 3.GM.7
___/___/___		*Section C- Checkpoint Assessment*	3.GM.5, 3.GM.6, 3.GM.6, 3.GM.7
___/___/___	End-Unit Assessment		

Unit 3 – Wrapping Up Addition and Subtraction within 1,000 (26 Days)

Date		*Lesson*	*Standards*
___/___/___	Section A: Add within 1,000	L1: Represent Numbers in Different Ways	3.CAR.1, 3.NPV.2
___/___/___		L2: Addition and Subtraction Situations	3.CAR.1, 3.CAR.5, 3.NPV.2

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___/___/___		L3: Add Your Way	3.CAR.1, 3.NPV.2
___/___/___		L4: Introduction to Addition Algorithms	3.CAR.1, 3.NPV.2
___/___/___		L5: Another Addition Algorithm	3.CAR.1, 3.CAR.5, 3.NPV.2
___/___/___		L6: Use Strategies and Algorithms to Add Within 1,000	3.CAR.1, 3.NPV.2
___/___/___		*Section A- Checkpoint Assessment*	3.CAR.1, 3.CAR.5, 3.NPV.2
___/___/___	Section B: Subtract within 1,000	L7: Subtract Your Way	3.CAR.1, 3.NPV.2
___/___/___		L8: Subtraction Algorithms (Part 1)	3.CAR.1, 3.NPV.2
___/___/___		L9: Subtraction Algorithms (Part 2)	3.CAR.1, 3.NPV.2
___/___/___		L10: Subtraction Algorithms (Part 3)	3.CAR.1, 3.NPV.2
___/___/___		L11: Analyze Subtraction Algorithms	3.CAR.1, 3.NPV.2
___/___/___		L12: Subtract Strategically	3.CAR.1, 3.CAR.3, 3.NPV.2
___/___/___		*Section B- Checkpoint Assessment*	3.CAR.1, 3.CAR.3, 3.NPV.2
___/___/___	Section D: Round within 1,000	L13: Multiples of 100	3.NPV.1, 3.NPV.2
___/___/___		L14: Nearest Multiples of 10 and 100	3.NPV.1, 3.NPV.2
___/___/___		L15: Round to the Nearest Ten and Hundred	3.NPV.1, 3.NPV.2
___/___/___		L16: Round and Round Again	3.NPV.1, 3.CAR.2, 3.NPV.2
___/___/___		*Section C- Checkpoint Assessment*	3.NPV.1, , 3.CAR.2, 3.NPV.2

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___/___/___	Section D: Solve Two-Step Problems	L17: Does it Make Sense?	3.CAR.7, 3.NPV.2
___/___/___		L18: Diagrams and Equations for Word Problems	3.CAR.7, 3.NPV.2,
___/___/___		L19: Situations and Equations	3.CAR.7, 3.NPV.2
___/___/___		L20: More Practice to Represent and Solve	3.CAR.2, 3.CAR.7, 3.NPV.2
___/___/___		L21: Classroom Supplies *Optional Lesson*	3.NPV.1, 3.NPV.2, 3.CAR.1
___/___/___		*Section D- Checkpoint Assessment*	3.CAR.2,3.CAR.7, 3.NPV.1, 3.NPV.2, 3.CAR.1
___/___/___	End-Unit Assessment		

Unit 4 – Relating Multiplication to Division (27 Days)

Date		*Lesson*	*Standards*
___/___/___	Section A:	L1: How Many Groups?	3.CAR.9, 3.CAR.6

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___/___/___	What is Division?	L2: How Many in Each Group?	3.CAR.9, 3.CAR.6
___/___/___		L3: Division Situation Drawings	3.CAR.1, 3.CAR.9
___/___/___		L4: Interpret Division Expressions	3.CAR.1, 3.CAR.9
___/___/___		L5: Write Division Expressions	3.CAR.1, 3.CAR.9, 3.CAR.6
___/___/___		*Section A: Checkpoint Assessment*	3.CAR.1, 3.CAR.9, 3.CAR.6
___/___/___	Section B: Relate Multiplication and Division	L6: Division as an Unknown Factor	3.CAR.9, 3.CAR.9
___/___/___		L7: Relate Multiplication and Division	3.CAR.4, 3.CAR.9, 3.CAR.6, 3.CAR.9
___/___/___		L8: Relate Quotients to Familiar Products	3.CAR.9, .CAR.2
___/___/___		L9: Patterns in the Multiplication Table	3.CAR.2, 3.CAR.5
___/___/___		L10: Explore Multiplication Strategies with Rectangles	3.GM.6, 3.GM.7, 3.CAR.2
___/___/___		L11: Multiplication Strategies on Ungridded Rectangles	3.GM.6, 3.GM.7, 3.CAR.2
___/___/___		*Section B: Checkpoint Assessment*	3.CAR.4, 3.CAR.9, 3.CAR.6, 3.CAR.9, 3.GM.6, 3.GM.7, 3.CAR.3, 3.CAR.2
___/___/___	Section C: Multiplying Larger Numbers	L12: Multiply Multiples of Ten	3.CAR.4
___/___/___		L13: Solve Problems with Equal Groups	3.CAR.6, 3.CAR.3
___/___/___		L14: Ways to Represent Multiplication of Teen Numbers	3.CAR.3
___/___/___		L15: Equal Groups, Larger Numbers	3.GM.6, 3.GM.7, 3.CAR.6, 3.CAR.3

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___/___/___		L16: Multiply Numbers Larger than 20	3.CAR.3
___/___/___		L17: Use the Four Operations to Solve Problems	3.CAR.4, 3.CAR.3, 3.CAR.7
___/___/___		*Section C- Checkpoint Assessment*	3.CAR.4, 3.CAR.3, 3.CAR.7, 3.GM.6, 3.GM.7, 3.CAR.6,
___/___/___	Section D: Dividing Larger Numbers	L18: Larger Numbers in Equal Groups	3.CAR.9, 3.CAR.6
___/___/___		L19: Ways to Divide Larger Numbers	3.CAR.4, 3.CAR.9, 3.CAR.3, 3.CAR.2
___/___/___		L20: Strategies for Dividing	3.CAR.3, 3.CAR.2
___/___/___		L21: Solve Problems Using the Four Operations	3.CAR.7
___/___/___		L22: School Community Garden *Optional Lesson*	3.GM.6, 3.GM.7, 3.CAR.9, 3.CAR.6 3.CAR.8, 3.CAR.7
___/___/___		*Section D- Checkpoint Assessment*	3.GM.6, 3.GM.7, 3.CAR.9, 3.CAR.6, 3.CAR.8, 3.CAR.7
___/___/___	End-Unit Assessment		

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Unit 5 – Fractions as Numbers (23 Days)

Date		*Lesson*	*Standards*
___/___/___	Section A: Introduction to Fractions	L1: Name the Parts	3.NPV.6, 3.NPV.7, 3.NPV.9
___/___/___		L2: Name Parts as Fractions	3.NPV.6, 3.NPV.7, 3.NPV.9
___/___/___		L3: Non-Unit Fractions	3.NPV.6, 3.NPV.9
___/___/___		L4: Build Fractions from Unit Fractions	3.NPV.6, 3.NPV.9, 3.CAR.2
___/___/___		*Section A- Checkpoint Assessment*	3.NPV.6, 3.NPV.7, 3.NPV.9
___/___/___	Section B: Fractions on the Number Line	L5: To the Number Line	3.NPV.7, 3.NPV.8, 3.NPV.11
___/___/___		L6: Locate Unit Fractions on the Number Line	3.NPV.7, 3.NPV.8, 3.NPV.11
___/___/___		L7: Non-Unit Fractions on the Number Line	3.NPV.7, 3.NPV.8, 3.NPV.11
___/___/___		L8: Fractions and Whole Numbers	3.NPV.7, 3.NPV.8, 3.NPV.5, 3.NPV.10, 3.NPV.11, 3.CAR.2
___/___/___		L9: All Kinds of Numbers on the Number Line	3.NPV.7, 3.NPV.8, 3.NPV.11
___/___/___		*Section B: Checkpoint Assessment*	3.NPV.7, 3.NPV.8,3.NPV.5, 3.NPV.10,3.NPV.11

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___/___/___	Section C: Equivalent Fractions	L10: Equivalent Fractions	3.NPV.5, 3.NPV.10,3.NPV.11
___/___/___		L11: Generate Equivalent Fractions	3.NPV.5, 3.NPV.10,3.CAR.3
___/___/___		L12: Equivalent Fractions on a Number Line	3.NPV.5, 3.NPV.10,3.NPV.11
___/___/___		L13: Whole Numbers and Fractions	3.NPV.5, 3.NPV.10,3.NPV.11
___/___/___		*Section C- Checkpoint Assessment*	3.NPV.5, 3.NPV.10,3.NPV.11
___/___/___	Section D: Fraction Comparisons	L14: How Do You Compare Fractions?	3.NPV.5, 3.NPV.10,3. NPV.11
___/___/___		L15: Compare Fractions with the Same Denominator	3.NPV.5, 3.NPV.10, 3.NPV.11
___/___/___		L16: Compare Fractions with the Same Numerator	3.NPV.5, 3.NPV.10,3.NPV.11
___/___/___		L17: Compare Fractions	3.NPV.5, 3.NPV.10,3.NPV.11
___/___/___		L18: Design with Fractions *Optional Lesson*	3.NPV.9, 3.NPV.7, 3.NPV.8, 3.NPV.11
___/___/___		*Section D- Checkpoint Assessment*	3.NPV.7, 3.NPV.8,3.NPV.5, 3.NPV.10,3.NPV.11
___/___/___	End-Unit Assessment		

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Unit 6 – Measuring Length, Time, Liquid Volume, and Weight (21 Days)

Date		*Lesson*	*Standards*
___/___/___	Section A: Measurement Data on Line Plots	L1: Measure in Fractions of an Inch	3.GM.4
___/___/___		L2: Measure in Halves or Fourths of an Inch	3.GM.4
___/___/___		L3: Measure with Fractions of Inches	3.GM.4, 3.NPV.5, 3.NPV.10,
___/___/___		L4: Interpret Measurement Data on Line Plots	3.GM.4
___/___/___		L5:Represent Measurement Data on Line Plots	3.GM.4, 3.CAR.2

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___/___/___		*Section A- Checkpoint Assessment*	3.GM.4, 3.NPV.5, 3.NPV.10,3.CAR.2
___/___/___	Section B: Liquid Volume and Weight	L6: Estimate and Measure Weight	3.GM.8, 3.GM.9
___/___/___		L7: Introduction to Liquid Volume	3.GM.8, 3.GM.9
___/___/___		L8: Estimate and Measure Liquid Volume	3.GM.8, 3.GM.9, 3.CAR.2
___/___/___		*Section B- Checkpoint Assessment*	3.GM.8, 3.GM.9, 3.NPV.5, 3.NPV.7, 3.NPV.8, 3.NPV.9, 3.NPV.10,3.CAR.2
___/___/___	Section C: Problems Involving Time	L9: Time to the Nearest Minute	3.GM.10, 3.GM.11
___/___/___		L10: Solve Problems Involving Time (Part 1)	3.GM.10, 3.GM.11
___/___/___		L11: Solve Problems Involving Time (Part 2)	3.GM.10, 3.GM.11
___/___/___		*Section C- Checkpoint Assessment*	3.GM.10, 3.GM.11
___/___/___	Section D: Measurement Problems in Context	L12: Ways to Represent Measurement in Situations	3.GM.8, 3.GM.9
___/___/___		L13: Problems with Missing Information	3.GM.8, 3.GM.9
___/___/___		L14: What Makes Sense in the Problem?	3.GM.10, 3.GM.11, 3.GM.8, 3.GM.9, 3.CAR.1
___/___/___		L15: Ways to Solve Problems and Show Solutions	3.GM.10, 3.GM.11, 3.GM.8, 3.GM.9 3.CAR.6, 3.CAR.2
___/___/___		L16: Design a Carnival Game *Optional Lesson*	3.GM.8, 3.GM.9, 3.GM.10, 3.GM.11, , 3.CAR.1,
___/___/___		*Section D- Checkpoint Assessment*	3.GM.10, 3.GM.11, 3.GM.8, 3.GM.9, 3.CAR.6, 3.CAR.2, 3.CAR.1
___/___/___	End-Unit Assessment		

Unit 7 – Two-Dimensional Shapes and Perimeter (20 Days)

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Date		*Lesson*	*Standards*
___/___/___	Section A: Reason with Shapes	L1: What Attributes Do You See?	3.GM.1, 3.GM.2, 3.GM.3
___/___/___		L2: Attributes of Triangles and Quadrilaterals	3.GM.1, 3.GM.2, 3.GM.3, 3.CAR.4
___/___/___		L3: Attributes that Define Shapes	3.GM.1, 3.GM.2, 3.GM.3, 3.CAR.4
___/___/___		L4: Attributes of Rectangles, Rhombuses, and Squares	3.GM.1, 3.GM.2, 3.GM.3
___/___/___		L5: Attributes of Other Quadrilaterals	3.GM.1, 3.GM.2, 3.GM.3, 3.CAR.2
___/___/___		*Section A- Checkpoint Assessment*	3.GM.1, 3.GM.2, 3.GM.3, 3.CAR.2, 3.CAR.4
___/___/___	Section B: What is Perimeter? *THIS SECTION CAN BE USED AS REVIEW FROM 2ND GRADE, THIS STANDARD WAS MOVED TO 2ND GRADE*	L6: Distance Around	3.MD.D.8* WAS MOVED TO 2ND GRADE* 3RD GRADE ONLY TEACHES PERIMETER
___/___/___		L7: Same Perimeter, Different Shapes	3.MD.D.8* WAS MOVED TO 2ND GRADE* 3RD GRADE ONLY TEACHES PERIMETER
___/___/___		L8: Find the Perimeter	3.MD.D.8* WAS MOVED TO 2ND GRADE* 3RD GRADE ONLY TEACHES PERIMETER
___/___/___		L9: Perimeter Problems	3.MD.D.8* WAS MOVED TO 2ND GRADE* 3RD GRADE ONLY TEACHES PERIMETER
___/___/___		*Section B- Checkpoint Assessment*	3.MD.D.8* WAS MOVED TO 2ND GRADE* 3RD GRADE ONLY TEACHES PERIMETER
___/___/___	Section C: Expanding on Perimeter	L10: Problem Solving with Perimeter and Area	3.GM.7,3.CAR.2, 3.CAR.7
___/___/___		L11: Rectangles with the Same Perimeter	3.CAR.2
___/___/___		L12: Rectangles with the Same Area	3.GM.7, 3.CAR.2
___/___/___		*Section C- Checkpoint Assessment*	3.GM.7, ,3.CAR.2, 3.CAR.7

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___/___/___	Section D: Design with Perimeter and Area	L13: Shapes and Play	3.MD.D.8* WAS MOVED TO 2ND GRADE* 3RD GRADE ONLY TEACHES PERIMETER
___/___/___		L14: Wax Prints	3.GM.1, 3.GM.2, 3.GM.3
___/___/___		L15: Design Your Own Robot	3.MD.D.8* WAS MOVED TO 2ND GRADE* 3RD GRADE ONLY TEACHES PERIMETER
___/___/___		*Section D- Checkpoint Assessment*	3.GM.1, 3.GM.2, 3.GM.3
___/___/___	End-Unit Assessment		

Unit 8 – Putting It All Together (15 Days)

Date		*Lesson*	*Standards*
___/___/___	Section A: Fraction Fun	L1: Estimation Explorations with Fractions	3.NPV.9, 3.NPV.7, 3.NPV.8
___/___/___		L2: Create Your Own Number Line	3.NPV.7, 3.NPV.8,3.NPV.7, 3.NPV.8
___/___/___		L3: Fractions Round Table	3.NPV.9 , 3.NPV.7, 3.NPV.8, 3.NPV.5, 3.NPV.10,
___/___/___	Section B: Measurement and Data	L4: Tiny House: Design and Solve	3.GM.6, 3.GM.7
___/___/___		L5: Tiny House: Cost	3.CAR.1,3.CAR.7
___/___/___		L6: Survey the Class, Survey the School	3.DA.1, 3.DA.2
___/___/___		L7: Graph and Answer	3.DA.1, 3.DA.2
___/___/___	Section C:	L8: Multiplication Center Day	3.CAR.2

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___/___/___	Multiplication and Division Games	L9: Multiplication Game Day	3.CAR.2
___/___/___		L10: Multiplication and Division	3.CAR.6, 3.CAR.9
___/___/___		L11: Division Game Day	3.CAR.2
___/___/___	Section D: Create Your Own Warm-up Activity	L12: Notice and Wonder	3.GM.5
___/___/___		L13: How Many Do You See?	3.GM.5
___/___/___		L14: Estimation Exploration	3.GM.4
___/___/___		L15: Number Talk	3.CAR.1
___/___/___	End-Unit Assessment		