

Elementary Math Curriculum Guide - 2019-2020
Kindergarten Units of Study

Unit 1 September 12 – October 4	Unit 2 October 5 – November 7	Unit 3 November 9 – December 7	Unit 4 December 10 – January 11	Unit 5 January 14 – February 13	Unit 6 February 20 – March 14
<p>Main Concepts</p> <ul style="list-style-type: none"> ● Counting ● Developing Number Sense ● Graphing <p>Standards in Unit KMD1, KMD2, KMD3 KG1, KG2, KG4, KG6 KCC1, KCC2, KCC3, KCC4, KCC4a, KCC4b, KCC4c, KCC5, KCC6 KOA3, KOA5</p>	<p>Main Concepts</p> <ul style="list-style-type: none"> ● Counting & Comparing Sets ● Numbers Stories ● Shapes <p>Standards in Unit KMD1, KMD3 KG1, KG2, KG4 KCC2, KCC3, KCC4, KCC4a, KCC4b, KCC4c, KCC5, KCC6 KOA1, KOA2, KOA3, KOA4</p>	<p>Main Concepts</p> <ul style="list-style-type: none"> ● Numerals ● Graphing <p>Standards in Unit KMD1, KMD2, KMD3 KG1, KG2, KG4, KG5 KCC1, KCC2, KCC3, KCC4, KCC4a, KCC4b, KCC4c, KCC5, KCC6, KCC7 KOA1, KOA3, KOA4</p>	<p>Main Concepts</p> <ul style="list-style-type: none"> ● Counting by 10's and Counting On ● Exploring Weight & Capacity ● Composing & Decomposing Numbers ● Combining Shapes <p>Standards in Unit KMD1, KMD2, KMD3 KG1, KG2, KG4, KG6 KCC1, KCC2, KCC3, KCC5, KCC6, KCC7 KOA3, KOA4, KOA5</p>	<p>Main Concepts</p> <ul style="list-style-type: none"> ● Teen Numbers ● 100th Day of School ● Introduction to Symbols ● Shapes <p>Standards in Unit KMD1, KMD2, KG1, KG2, KG4, KG5, KG6 KCC1, KCC2, KCC3, KCC5, KCC6, KCC7 KOA1, KOA2, KOA3, KOA4, KNBT1</p>	<p>Main Concepts</p> <ul style="list-style-type: none"> ● Length Measurement ● 2 & 3 Dimensional Shapes ● Addition & Subtraction Situations & Symbols ● Sorting <p>Standards in Unit KMD1, KMD2, KMD3 KG1, KG2, KG3, KG4, KCC3, KCC5, KCC6, KCC7 KOA1, KOA2, KOA3, KOA4</p>
<p>Lessons</p> <ol style="list-style-type: none"> 1: Partner Match 2: Intro to Pattern Blocks 3: Gotcha: A Counting Game 4: Number Walk 5: Getting to Know Numbers 6: Count & Sit 7: Class Birthdays 8: Class Age Graph 9: Number Stations 10: Quick Looks 11: Five Frames 12: Describing Shapes 13: Shape Patterns 	<p>Lessons</p> <ol style="list-style-type: none"> 1: Match Up with Dot Cards 2: Top It with Dot Cards 3: Getting to Know Triangles 4: Number Board 5: Pocket Problems 6: How Many Now 7: Intro to Sorting (2 days) 8: Getting to Know Circles 9: Ten Frames 10: Counting Collections 11: Getting to Know Rectangles 12: Number Stories 13: More Number Stories 	<p>Lessons</p> <ol style="list-style-type: none"> 1: Pattern Block Graph 2: Ten-Bean Spill 3: Rope Shapes 4: Number Books 5: Longer or Shorter? 6: Obstacle Course Positions 7: Comparing Representations (2 days) 8: Spin a Number 9: Line Up 10: Number Card Activities 11: Roll & Record 12: Monster Squeeze 13: Numbers on Slates 	<p>Lessons</p> <ol style="list-style-type: none"> 1: Attribute Blocks 2: Shapes by Feel 3: Favorite Colors Graph 4: Meet the Calculator 5: Ten-Frame Quick Looks 6: Moving with Teens 7: Building Hexagons (2 days) 8: Building Numbers 9: Exploring Weight 10: Exploring Capacity 11: Counting by 10's 12: Top-It with Number Cards 13: Number-Grid Exploration 	<p>Lessons</p> <ol style="list-style-type: none"> 1: The 100th Day of School 2: Roll & Record with Dot Dice 3: Ten Bears on a Bus 4: Find & Draw Shapes 5: Shapes all Around 6: Teen Partners 7: Seats at the Party (2 days) 8: Teens on Double Ten Frames 9: The Equal Symbol = 10: The Addition Symbol + 11: Growing Train 12: Number Scrolls 13: Shape Combinations 	<p>Lessons</p> <ol style="list-style-type: none"> 1: Body Heights with String 2: Length Line Up 3: Types of Pet Graph 4: Solid-Shapes Museum 5: Flat & Solid Shapes 6: What's My Rule Fishing 7: Tall Enough to Ride (2 days) 8: The Subtraction Symbol - 9: Disappearing Train 10: Attribute Spinner 11: Hiding Bears 12: Growing & Disappearing Train

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					13: Number Stories with Symbols (+, -, & =)
Unit 7 March 15 – April 8	Unit 8 April 9 – May 13	Unit 9 May 14 – June 12			
Main Concepts <ul style="list-style-type: none"> Addition & Subtraction Strategies Collecting & Representing Data Estimation Standards in Unit KMD1, KMD2, KMD3 KG1, KG2, KG3, KG4 KCC1, KCC2, KCC3, KCC5, KCC6, KCC7 KOA1, KOA2, KOA3, KOA5, KNBT1	Main Concepts <ul style="list-style-type: none"> Making Ten Molding 3D Objects Adding & Subtracting Measuring Time Standards in Unit KMD2, KG1, KG2, KG3, KG4, KG5, KG6 KCC1, KCC2, KCC3, KCC5, KCC7 KOA1, KOA2, KOA3, KOA4, KOA5 KNBT1	Main Concepts <ul style="list-style-type: none"> Spatial Relationships Measurement Class Math Celebration Standards in Unit KMD1, KMD2, KG1, KG2, KG3, KG5, KG6 KCC1, KCC2, KCC3, KCC5, KCC6, KCC7 KOA1, KOA2, KOA3, KOA4, KOA5			
Lessons 1: Number Line Addition & Subtraction 2: Domino Addition 3: Teen Collections 4: Solid Shapes Match Up 5: Count & Skip with Calculators 6: Pan Balance: Leveling 7: Representing Survey Data (2 days) 8: Estimation Jar 9: Bead Combinations 10: Class Number-Story Book 11: Class Collection 12: Dice Addition 13: Mystery Block	Lessons 1: Solid Shapes by Feel 2: Marshmallow & Toothpick Shapes 3: Counting to Measure Time 4: Interrupted Count 5: Dice Subtraction 6: Craft-Stick Bundles 7: Birds on Wires (2 days) 8: Car Race 9: Number Stories with Calculators 10: Nonconsecutive Numbers 11: Addition Top-It 12: Function Machines 13: Name-Collection Posters	Lessons 1: Make My Design 2: Subtraction Top-It 3: What's my Rule with Numbers 4: Backpack Math: Height, Width, Area 5: Backpack Math: Weight & Capacity 6: Roll & Record with Numeral Dice 7: Making Classroom Maps (2 days) 8: Uniform Weights on a Pan Balance 9: Measuring Time in Seconds 10: Doubles on a Double Ten Frame 11: Fishing for Ten 12: Math Celebration Preparation 13: Math Celebration			

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First Grade Units of Study

Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
<p>September 12 – October 3</p> <p>Main Concepts</p> <ul style="list-style-type: none"> ● Counting ● Number Stories <p>Standards in Unit 1MD4 1G1, 1G2 1OA1, 1OA3, 1OA5, 1OA6, 1OA7 1NBT1, 1NBT3</p>	<p>October 4 – October 26</p> <p>Main Concepts</p> <ul style="list-style-type: none"> ● Addition ● Ten Frames ● Modeling Number Stories (Change Situations) ● Decomposing Numbers within Ten <p>Standards in Unit 1MD4 1OA1, 1OA3, 1OA4, 1OA5, 1OA6, 1OA7, 1OA8 1NBT1, 1NBT3</p>	<p>October 30 – November 28</p> <p>Main Concepts</p> <ul style="list-style-type: none"> ● Number Stories ● Parts & Total Diagrams ● Relationship between Counting and Addition & Subtraction <p>Standards in Unit 1MD1 1OA1, 1OA3, 1OA, 1OA6, 1OA8 1NBT1, 1NBT3</p>	<p>November 30 – January 4</p> <p>Main Concepts</p> <ul style="list-style-type: none"> ● Length Measurement ● Addition Fact Fluency ● Bar Graphs ● Adding & Subtracting 10's from 2 Digit Numbers <p>Standards in Unit 1MD1, 1MD2, 1MD4 1G1, 1G2 1OA1, 1OA2, 1OA3, 1OA5, 1OA6 1NBT1, 1NBT2, 1NBT5</p>	<p>January 7 – February 4</p> <p>Main Concepts</p> <ul style="list-style-type: none"> ● Place Value Comparisons ● Comparing Numbers using <, >, or = ● Comparison Stories <p>Standards in Unit 1MD1, 1MD2, 1OA1, 1OA3, 1OA4, 1OA5, 1OA6, 1OA7, 1OA8 1NBT1, 1NBT2, 1NBT2a, 1NBT2b, 1NBT2c, 1NBT3, 1NBT4, 1NBT6</p>	<p>February 5 – March 5</p> <p>Main Concepts</p> <ul style="list-style-type: none"> ● Addition Fact Strategies ● Number Stories ● Telling Time (Analog) ● Place Value <p>Standards in Unit 1MD3 1G1 1OA1, 1OA2, 1OA3, 1OA6, 1OA7 1NBT2, 1NBT2a, 1NBT2b, 1NBT2c, 1NBT3, 1NBT4, 1NBT6</p>
<p>Lessons</p> <p>1: Introducing 1st Grade Everyday Mathematics 2: Investigating the Number Line 3: Tools for Doing Mathematics 4: Counting Strategies (2 days) 5: 1 More, 1 Less 6: Comparing Numbers 7: Organizing Data in a Tally Chart 8: More Organizing Data 9: Exploring Math Materials 10: Number Stories 11: Counting Larger Numbers</p>	<p>Lessons</p> <p>1: Introducing the Strategy Wall 2: Decomposing Numbers Within Ten 3: More Decomposing Numbers within Ten 4: Exploring Subtraction, Pairs of Numbers that Add to Ten, and Data 5: Ten Apples (2 days) 6: More Counting on to Add 7: Labeling Counts 8: Change-to-More Number Stories 9: Change-to-Less Number Stories 10: Number Models 11: Finding Unknowns</p>	<p>Lessons</p> <p>1: Parts & Total Number Stories 2: Number Story Strategies 3: Exploring Counting, Matching Pairs, and Ordering by Length 4: Birds in a Tree (2 days) 5: Counting on a Number Line 6: Counting to Add and Subtract 7: More Counting to Add and Subtract 8: Skip Counting to Add and Subtract 9: Counting Application: Frames & Arrows 10: Addition & Subtraction Application: Frames & Arrows</p>	<p>Lessons</p> <p>1: Introducing Length Measurement 2: Measuring Length 3: More Length Measurement 4: Measuring a Marker (2 days) 5: Exploring Data, Shapes, & Base 10 Blocks 6: Representing Data with a Bar Graph 7: Introducing Doubles 8: Combinations of 10 9: More Combinations of Ten 10: Adding 3 Numbers 11: 10 More, 10 Less</p>	<p>Lessons</p> <p>1: Introducing Place Value 2: Digits & Place Value 3: Place Value Application: Pennies & Dimes 4: Greater Than, Less Than, Equal to 5: The Equal Sign 6: Counting & Place Value Application: Number Scrolls 7: Measuring a Path 8: Exploring Base 10 Exchanges, lengths, and Path Measurement 9: More Comparison Symbols 10: Comparison Number Stories 11: Two Digit Addition & Subtraction</p>	<p>Lessons</p> <p>1: Time & the Hour Hand Only Clock 2: More 2-Digit Number Stories 3: Exploring True & False, Doubles & Shapes 4: Introducing Near Doubles 5: Recording Near Doubles Strategies 6: Introducing Making Ten 7: Introducing My Reference Book 8: Pencils for the Writing Club (2 days) 9: Understanding Equivalence 10: More Place Value 11: Place Value Application:</p>

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		11: Counting with Calculators		12: Adding Animal Weights (2 days)	Pennies, Dimes, and Dollars
Unit 7 March 6 – March 28	Unit 8 April 1 – May 1	Unit 9 May 2 – May 24			
Main Concepts <ul style="list-style-type: none"> Subtraction Fact Strategies Attributes of Two Dimensional Shapes Telling Time (Nearest Hour) Standards in Unit 1MD3 1G1, KG3 1OA1, 1OA3, 1OA4, 1OA5, 1OA6, 1OA7, 1OA8 1NBT4, 1NBT5	Main Concepts <ul style="list-style-type: none"> Attributes of 3 Dimensional Shapes Fraction of Shapes Telling Time (Nearest Half-Hour) Standards in Unit 1MD3, 1MD4 1G1, 1G2, 1G3 1OA1, 1OA3, 1OA6 1NBT2, 1NBT4, 1NBT5, 1NBT6	Main Concepts <ul style="list-style-type: none"> Addition & Subtraction Comparison of Numbers Measurement Concepts Equivalent Names of Numbers (Broken Calculator) Standards in Unit 1MD1, 1MD2 1G1, 1G2, 1G3 1OA1, 1OA2, 1OA3, 1OA6, 1OA7 1NBT2, 1NBT2a, 1NBT2b, 1NBT2c, 1NBT4, 1NBT5, 1NBT6			
Lessons 1: Fact Families 2: More Fact Families 3: Relating Special Addition & Subtraction Facts 4: More Subtraction Fact Strategies 5: Attributes of Shapes 6: Exploring Attributes, Fractions, and Salute 7: Defining and Nondefining Attributes 8: Finding Unknowns: “What’s My Rule” 9: Desks & Chairs (2 days) 10: Addition Facts: “What’s My Rule?” 11: Digital Clocks	Lessons 1: Building Shapes with Defining Attributes 2: Halves 3: Fourths 4: Sharing Paper Squares (2 days) 5: Combining 2 Dimensional Shapes 6: 3 Dimensional Shapes 7: Exploring Composition of Shapes and Addition Fact Strategies 8: Time to the Half Hour 9: Review: Data 10: Number-Grid Puzzles 11: Mentally Finding Ten More or Ten Less 12: Number Stories	Lessons 1: Review Measurement 2: Two-Digit Number Stories 3: Shopping at the School Store (2 days) 4: Exploring Broken Calculators, Fractions, and Facts 5: Vending Machine Addition & Subtraction 6: Two Digit Comparison Number Stories 7: Efficient Strategies for 2 Digit Addition and Subtraction 8: Review Relations and Equivalence			

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	13: More Number Stories	9: Review Place Value 10: Review 3 Review			
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Second Grade Units of Study

Unit 1 September 13 – October 10	Unit 2 October 12 – November 8	Unit 3 November 13 – December 6	Unit 4 December 7 – January 10	Unit 5 January 14 – February 8	Unit 6 February 12 – March 8
Main Concepts <ul style="list-style-type: none"> ● Counting Using a Number Line ● Equivalent Names for Numbers ● Counting Coins Standards in Unit 2MD6, 2MD8 2G2 2OA2, 2OA3, 2NBT2, 2NBT3, 2NBT4, 2NBT5, 2NBT7, 2NBT8, 2NBT9	Main Concepts <ul style="list-style-type: none"> ● Fact Strategies ● Name Collection Strategies ● Frames & Arrows Diagrams Standards in Unit 2MD8 2G1, 2G3 2OA1, 2OA2, 2OA3 2NBT1, 2NBT1a, 2NBT3, 2NBT5, 2NBT7, 2NBT9	Main Concepts <ul style="list-style-type: none"> ● Subtraction Strategies ● Subtraction Number Stories ● Fact Triangles Standards in Unit 2MD6, 2MD8 2G1, 2G3 2OA1, 2OA2, 2OA3 2NBT1, 2NBT1a, 2NBT3, 2NBT5, 2NBT7, 2NBT9	Main Concepts <ul style="list-style-type: none"> ● Tell & Write Times ● Read, Write, and Compare from 0 – 999 ● Estimating & Measuring Lengths (Cm, In, Ft) Standards in Unit 2MD1, 2MD2, 2MD3, 2MD7, 2MD9 2OA2, 2OA4 2NBT1, 2NBT1a, 2NBT1b, 2NBT3, 2NBT3, 2NBT4, 2NBT5, 2NBT7	Main Concepts <ul style="list-style-type: none"> ● Money Concepts ● Open Number Line Strategies Standards in Unit 2MD6, 2MD7, 2MD8 2G1 2OA1, 2OA2, 2OA4 2NBT2, 2NBT5, 2NBT7, 2NBT8, 2NBT9	Main Concepts <ul style="list-style-type: none"> ● Data Graphs ● Number Story Diagrams ● Addition Strategies Standards in Unit 2MD1, 2MD2, 2MD4, 2MD5, 2MD6, 2MD10 2G1 2OA1, 2OA4 2NBT1, 2NBT2, 2NBT3, 2NBT4, 2NBT5, 2NBT7, 2NBT9

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Lessons	Lessons	Lessons	Lessons	Lessons	Lessons
1: Numbers All Around 2: Number Lines & Partnership Principles 3: Math Tools 4: Class Number Scroll 5: Number Grid Puzzles (2 days) 6: Equivalent Names for Numbers 7: Playing Fishing for Ten 8: My Reference Book, Quarters, and Math Boxes 9: Even & Odd Patterns 10: Skip Counting Patterns 11: Comparing Numbers and Home Links 12: Exploring Base Ten Blocks, Areas, and Dominoes	1: Grouping by Tens 2: Addition Number Stories 3: Doubles & Combinations of Ten 4: The Making Ten Strategy 5: The Near Doubles Strategy 6: The Turn Around Rule for Addition 7: Subtraction & the Turn Around Rule (2 days) 8: Exploring Addition Tools, Odd and Even Patterns, and Shapes 9: Even Numbers & Equal Addends 10: Name Collection Boxes 11: Playing Name that Number 12: Frames & Arrows	1: Using Addition Strategies (2 days) 2: Subtraction from Addition 3: Fact Families 4: Playing Salute 5: Subtraction Strategies: Counting Up & Counting Back 6: 0 & 1 Fact Strategies and Subtraction Top It 7: What's My Rule 8: Using Doubles to Subtract 9: Going Back Through 10 Strategy for Subtraction 10: Going Up Through 10 Strategy for Subtraction 11: Exploring Rectangles, Fact Wheels & Coins	1: Clocks & Telling Time 2: Telling Time to the Nearest 5 Min 3: A.M. & P.M. 4: Numeration & Place Value 5: Using Place Value to Compare Numbers 6: Using Base 10 Blocks to Show a Number (2 days) 7: Playing Target 8: How Big is a Foot 9: The Inch 10: The Centimeter 11: Matching Facts with Strategies, Measuring a Path, Exploring Arrays	1: Playing Beat the Calculator 2: Using Coins to Buy Things 3: Counting Up with Money 4: Coin Calculators 5: Exploring Arrays, Times, and Shapes 6: Mentally Adding & Subtracting 10 and 100 7: Open Number Lines 8: Change to More Strategies 9: Parts & Total Number Stories 10: Change Number Stories 11: Adding Multi Digit Numbers (2 days)	1: Representing Data: Pockets 2: Comparison Number Stories 3: Interpreting Number Stories 4: Animal Number Stories 5: Two Step Number Stories 6: Recording Addition Strategies 7: Partial Sums Addition 8: More Partial Sums Addition 9: Subtracting with Base 10 Blocks (2 days) 10: Exploring Arrays, Length, and Shape

Unit 7 March 11 – April 1	Unit 8 April 3 – May 6	Unit 9 May 7 – June 3			
Main Concepts <ul style="list-style-type: none"> Two digit addition strategies Data collection Measuring longer distances Standards in Unit 2MD1, 2MD2, 2MD3, 2MD4, 2MD6, 2MD9, 2MD10 2G1 2OA1, 2OA2	Main Concepts <ul style="list-style-type: none"> Two Dimensional Shapes Area Number Stories with Equal Groups Standards in Unit 2G1, 2G2, 2G3 2OA1, 2OA4 2NBT2	Main Concepts <ul style="list-style-type: none"> Equal Shares Fractional Units of length Subtraction Strategies Standards in Unit 2MD1, 2MD4, 2MD6, 2MD8 2G3 2OA1, 2OA2, 2OA3, 2OA4 2NBT1, 2NBT1a, 2NBT1b 2NBT2,			

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2NBT1, 2NBT1a, 2NBT3, 2NBT5, 2NBT6, 2NBT9		2NBT3, 2NBT4, 2NBT5, 2NBT6, 2NBT7, 2NBT9			
Lessons 1: Playing Hit the Target 2: Four or More addends (2 days) 3: Playing Basketball Addition 4: Measuring with Yards 5: Measuring with Meters 6: Generating Data: Standing Jumps & Arm Spans 7: Representing Data: Standing Jumps 8: Representing Data: Arm Spans 9: Exploring Shape Attributes, Graphs, and Measurements	Lessons 1: Attributes of 2 Dimensional Shapes 2: Playing Shape Capture 3: Comparing Triangles, Pentagons, and Hexagons 4: Drawing & Reasoning about Quadrilaterals (2 days) 5: Attributes of 3-Dimensional Shapes 6: Partitioning Rectangles (Part 1) 7: Partitioning Rectangles (Part 2) 8: Equal Groups & Array Number Stories 9: More Equal Groups & Arrays 10: Playing Array Concentration 11: Exploring Mystery Shapes, Polygons, & Equal Parts	Lessons 1: Creating & Naming Equal Parts 2: Exploring Equal Shares, Pattern Block Fractions, and Number Lines 3: Sharing Muffins (2 days) 4: Fractional Units of Length 5: Reviewing Place Value 6: Expand & Trade Subtraction (Part 1) 7: Expand & Trade Subtraction (Part 2) 8: Equivalent Money Amounts 9: Estimating Costs (2 days) 10: Connecting Doubles Facts, equal Numbers, and Equal Groups 11: Multiples of Ten & Five	<div style="border: 2px solid black; padding: 5px; display: inline-block;"> 1 Third Grade Units of Study </div>		
Unit 1 September 13 – October 12	Unit 2 October 16th – November 13	Unit 3 November 15 – December 14	Unit 4 December 18 – January 22	Unit 5 January 24 – February 14	Unit 6 February 20 – March 13
Main Concepts <ul style="list-style-type: none"> Use Number Grids to Add & Subtract Rounding on Number Lines Tell Time to Nearest Minute Elapsed Time Bar Graphs Standards in Unit	Main Concepts <ul style="list-style-type: none"> Add & Subtract Larger Numbers Solve Multi-Step Number Stories Understanding Division & Remainders Standards in Unit	Main Concepts <ul style="list-style-type: none"> Pattern rules Estimating Addition Methods Data Collection Equivalent Names Multiplication Strategies 	Main Concepts <ul style="list-style-type: none"> Measure to Nearest cm and ½ inch Area & Perimeter Line Plots Standards in Unit	Main Concepts <ul style="list-style-type: none"> Fraction Compared to Whole Factors Equivalent Fractions Standards in Unit	Main Concepts <ul style="list-style-type: none"> Order of Operations Trade-first Subtraction Multiplication Fact Fluency Standards in Unit 3MD4, 3MD7C, 3MD8

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3MD1, 3MD2, 3MD3, 3MD4 3G1, 3G2 3OA1, 3OA2, 3OA3, 3OA6, 3OA7 3NBT1, 3NBT2 3NF1	3MD2,3MD5, 3MD5a, 3MD5b, 3MD6 3G2 3OA1, 3OA2, 3OA3, 3OA4, 3OA5, 3OA7, 3OA8, 3OA9 3NBT2 3NF1	Standards in Unit 3MD3, 3MD5, 3MD5a, 3MD5b, 3MD6, 3MD7, 3MD7a 3G2 3OA1, 3OA3, 3OA4, 3OA5,3OA7, 3OA8, 3OA9 3NBT1, 3NBT2	3MD2, 3MD4, 3MD5, 3MD5a, 3MD5b, 3MD6, 3MD7, 3MD7a, 3MD7b, 3MD7d, 3MD8 3G1 3OA7, 3OA8 3NF2, 3NF2a	3MD6, 3MD7, 3MD7b, 3MD7c, 3MD7d, 3MD8 3G2 3OA1, 3OA2, 3OA3, 3AOA4, 3OA5,3OA6, 3OA7, 3OA8, 3OA9 3NBT2 3NF1, 3NF3, 3NF3a, 3NF3b, 3NF3c, 3NF3d	3G1 3OA1, 3OA2, 3OA3, 3OA4, 3OA5, 3OA6, 3OA7, 3OA8, 3OA9 3NBT2
Lessons 1: Number Grids 2: Introducing the Student Reference Book 3: Tools for Mathematics 4: Number Lines & Rounding 5: Time 6: How Long is the Morning (2 days) 7: Scaled Bar Graphs 8: Multiplication Strategies 9: Introducing Division 10: Foundational Multiplication Facts 11: The Length of Day Project 12: Exploring Mass, equal Shares, and Equal Groups 13: Measuring Mass	Lessons 1: Extended Facts: Addition & Subtraction 2: Number Stories 3: More Number Stories 4: Multistep Number Stories Part 1 5: Multistep Number Stories Part 2 6: Equal Groups 7: Multiplication Arrays 8: Picturing Division (2 days) 9: Modeling Division 10: Playing Division Arrays 11: Frames & Arrows 12: Exploring Fraction Circles, Liquid Volume, and Area	Lessons 1: What's My Rule 2: Estimating Cost (2 days) 3: Partial Sums Addition 4: Addition 5: Counting-Up Subtraction 6: Expand & Trade Subtraction 7: Exploring Bar Graphs, Area, and Partitioning Rectangles 8: Scaled Picture Graphs 9: Exploring Multiplication Squares 10: The Commutative Property of Multiplication 11: Adding a Group 12: Subtracting a Group 13: Equivalent Names	Lessons 1: Measuring with a Ruler 2: Application: Line Plots 3: Exploring Measures of Distance & Comparisons of Mass 4: Polygon Review 5: Special Quadrilaterals 6: Perimeter 7: Area & Perimeter 8: Area & Composite Units 9: Number Sentences for Areas of Rectangles 10: Playing The Area & Perimeter Game 11: Building a Rabbit Pen (2 days) 12: Rectangular Figures	Lessons 1: Exploring Equal Parts, Fractions of Different Wholes, & Area 2: Representing Fractions 3: Equivalent Fractions 4: Recognizing Helper Facts 5: Multiplication Facts Strategies: Doubling (Part1) 6: Multiplication Facts Strategies: Doubling (Part2) 7: Patterns in Products 8: Finding Missing Factors 9: Multiplication Facts Strategies: Near Squares 10: Button Dolls (2 days) 11: Break Away - Multiplication Strategy	Lessons 1: Trade First Subtraction 2: Playing Baseball Multiplication 3: Taking Inventory of Known Fact Strategies 4: Fact Power & Beat the Calculator 5: Exploring Geometry Problems, Measurement Data, & Polygons 6: Multiplication & Division Diagrams 7: Multiplication with Larger Factors 8: Number Sentences with Parenthesis 9: Writing Number Stories (2 days) 10: Order of Operations 11: Number Models for 2 Step Number Stories
Unit 7 March 14 – April 8	Unit 8 April 9th – May 6	Unit 9 May 7 – May 22			
Main Concepts <ul style="list-style-type: none"> • Measure & Estimate Liquid Volume • Fraction Strips 	Main Concepts <ul style="list-style-type: none"> • Measure to Nearest $\frac{1}{4}$ Inch • Factor Pairs • Attributes of Prisms 	Main Concepts <ul style="list-style-type: none"> • Mental Arithmetic • Solving Number Stories 			

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<ul style="list-style-type: none"> Fractions on a Number Line Comparing Fractions Number Stories with Fractions Standards in Unit 3MD1, 3MD2 3G2 3OA1, 3OA2, 3OA3, 3OA7, 3OA8 3NBT2, 3NBT3 3NF1, 3NF2, 3NF2a, 3NF2b, 3NF3, 3NF3a, 3NF3b, 3NF3c, 3NF3d	<ul style="list-style-type: none"> Extended Multiplication & Division Standards in Unit 3MD4, 3MD7, 3MD7b 3G1, 3G2 3OA2, 3OA3, 3OA4, 3OA6, 3OA7 3NBT2, 3NBT3 3NF1, 3NF2, 3NF2a, 3NF2b, 3NF3, 3NF3a, 3NF3b, 3NF3c, 3NF3d	<ul style="list-style-type: none"> with Multiples of 10 Multiplication Area Models Standards in Unit 3MD1, 3MD2, 3MD3, 3MD7, 3MD7b, 3MD7c, 3MD7d 3G1, 3G2 3OA1, 3OA2, 3OA3, 3OA4, 3OA5, 3OA6, 3OA7, 3OA9 3NBT2, 3NBT3			
Lessons 1: Liquid Volume 2: Exploring Arrays, Volume, & Equal Shares 3: Number Stories with Measures 4: Fraction Strips 5: Fractions on a Number Line (Part1) 6: Fractions on a Number Line (Part2) 7: Comparing Fractions 8: Finding Rules for Comparing Fractions (2 days) 9: Locating Fractions on a Number Line 10: Justifying Fractions Comparisons 11: Fractions in Number Stories 12: Fractions of Collections	Lessons 1: Measuring to the Nearest $\frac{1}{4}$ Inch 2: Extended Facts: Multiplication & Division 3: Factors of Counting Numbers 4: Setting Up Chairs (2 days) 5: Playing Factor Bingo 6: Sharing Money 7: Exploring Number Lines, Fractions, & Area 8: Solid Shapes	Lessons 1: Playing Product Pile Up 2: Multiply & Divide with Multiples of 10 3: Using Mental Math to Multiply 4: Exploring Elapsed Time, Squares, & Bridges 5: Multidigit Multiplication 6: Packing Apples (2 days) 7: The Length of Day Project (Revisited)			

Fourth Grade Units of Study

Unit 1 September 13 – October 12	Unit 2 October 15th – November 13	Unit 3 November 14 – December 13	Unit 4 December 14 – January 22	Unit 5 January 23 – February 22	Unit 6 February 25 – March 25
Main Concepts <ul style="list-style-type: none"> Place Value in Whole Numbers 	Main Concepts <ul style="list-style-type: none"> Multiplication Comparison Number Stories 	Main Concepts <ul style="list-style-type: none"> Equivalent Fractions 	Main Concepts <ul style="list-style-type: none"> Multiplication Strategies & Methods 	Main Concepts <ul style="list-style-type: none"> Decomposing Fractions 	Main Concepts

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<ul style="list-style-type: none"> • Computation with Estimation • Customary Unit Conversions • Properties and Relationships of 2D Shapes <p>Standards in Unit 4MD1, 4MD2, 4MD3 4G1, 4G2 4OA3, 4OA5 4NBT1, 4NBT2, 4NBT3, 4NBT4, 4NBT5</p>	<ul style="list-style-type: none"> • Area • Arrays & Factors • Prime Vs. Composite <p>Standards in Unit 4MD1,4MD2, 4MD3 4G1, 4G2, 4G3 4OA1, 4OA2, 4OA4, 4OA5 4NBT4, 4NBT5, 4NBT6</p>	<ul style="list-style-type: none"> • Comparing Fractions • Representing Fractions in Different Ways <p>Standards in Unit 4MD1, 4MD2 4OA2, 4OA4, 4OA5 4NF1, 4NF2, 4NF3, 4NF3b, 4NF5, 4NF6, 4NF7</p>	<p>Standards in Unit 4MD1, 4MD2, 4MD3 4G2 4OA2, 4OA3 4NBT1, 4NBT2, 4NBT3, 4NBT4, 4NBT5, 4NBT6</p>	<ul style="list-style-type: none"> • Adding & Subtracting Mixed Numbers • Understanding Meaning of Fractions <p>Standards in Unit 4MD4, 4MD5, 4MD5A, 4MD5b 4G1, 4G3 4OA3 4NBT3, 4NBT4, 4NBT5 4NF1, 4NF3, 4NF3a, 4NF3b, 4NF3c, 4NF3d, 4NF5, 4NF6</p>	<ul style="list-style-type: none"> • Division Strategies & Methods • Angle Measurement • Fractions of Whole Numbers <p>Standards in Unit 4MD1, 4MD2, 4MD3, 4MD5, 4MD5a, 4MD5b 4MD6, 4MD7 4G1 4OA4, 4OA4 4NBT1, 4NBT2, 4NBT3, 4NBT4, 4NBT5,4NBT6 4NF3, 4NF3a, 4NF3b, 4NF3c, 4NF3d, 4NF4, 4NF4b, 4NF4c</p>
<p>Lessons</p> <ol style="list-style-type: none"> 1: Place Value in Whole Numbers 2: Place Value Concepts 3: Formal Procedures for Rounding 4: Introduction to the Student Reference Book 5: Estimation Strategies 6: Guide to Solving Number Stories 7: US Traditional Addition 8: Cracking the Muffin Code (2days) 9: US Traditional Subtraction 10: US Customary Units of Length 11: Points, Line Segments, Lines,& Rays 12: Angles, Triangles, & Quadrilaterals 13: Finding Perimeters of Squares & Rectangles 	<p>Lessons</p> <ol style="list-style-type: none"> 1: Square Number Patterns 2: The Area Formula for Rectangles 3: Factors & Factor Pairs 4: Multiples 5: Prime & Composite Numbers 6: Little & Big (2 days) 7: Units of Time 8: Multiplicative Comparisons 9: Multiplicative Comparison Number Stories 10: Classifying Triangles 11: Classifying Quadrilaterals 12: Finding Line Symmetry 13: Finding the Pattern 	<p>Lessons</p> <ol style="list-style-type: none"> 1: Equal Sharing & Equivalence 2: Fraction Circles & Equivalence 3: Number Lines & Equivalence 4: An Equivalent Fractions Rule 5: Veggie Pizzas (2 days) 6: Comparing Fractions 7: Comparing & Ordering Fractions 8: Modeling Tenths and Fraction Circles 9: Modeling Decimals & Base 10 Blocks 10: Tenths & Hundredths 11: Tenths & Hundredths of a Meter 12: Tenths of a cm 13: Comparing Decimals 	<p>Lessons</p> <ol style="list-style-type: none"> 1: Extended Multiplication Facts 2: Making Reasonable Estimates for Products 3: Partitioning Rectangles 4: Converting Liquid Measures 5: Walking Away with a Million Dollars (2 days) 6: Introducing Partial Products Multiplication 7: Metric Units of Mass 8: Money Number Stories 9: Partial Products Multiplication 10: Multiplication Wrestling 11: Area Models for Rectangles & Rectilinear Figures 12: Multistep Multiplication Number Stories 13: Lattice Multiplication 	<p>Lessons</p> <ol style="list-style-type: none"> 1: Fraction Decomposition 2: The Whole for Fractions 3: Adding Fractions 4: Adding Mixed Numbers 5: Adding Tenths & Hundredths) 6: Queen Arlene's Dilemma (2 days) 7: Subtracting Fractions 8: Subtracting Mixed Numbers 9: Line Plots 10: Rotations & Iterating Angles 11: Unit Iteration with Angles 12: Creating Symmetric Figures 13: More Multistep Multiplication Stories 	<p>Lessons</p> <ol style="list-style-type: none"> 1: Extended Division Facts 2: Area: Finding Missing Side Lengths 3: Strategies for Division 4: Partial Quotients Division (Part 1) 5: Fruit Baskets (2 days) 6: Customary Units of Weight 7: Partial Quotients Division (Part 2) 8: Expressing & Interpreting Remainders 9: Measuring Angles 10: Using a Half-Circle Protractor 11: Angle Measures Additive 12: Number Stories with Fractions & Mixed Numbers 13: Extending Understandings of Whole Number Multiplication
<p>Unit 7 March 26 – May 2</p>	<p>Unit 8 May 3 – June 3</p>				
<p>Main Concepts</p>	<p>Main Concepts</p>				

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<ul style="list-style-type: none"> ● Multiplication of Fractions & Whole Numbers ● Customary Unit Conversions ● Line Plots ● Division Strategies <p>Standards in Unit 4MD1, 4MD2, 4MD3, 4MD4 4OA2, 4OA3, 4OA5 4NBT4, 4NBT5, 4NBT6 4NF1, 4NF2, 4NF3, 4NF3a, 4NF3c, 4NF3d. 4NF4, 4NF4a, 4NF4b, 4NF4c, 4NF6</p>	<ul style="list-style-type: none"> ● Fraction Operations ● Application of Angles ● Data Applications <p>Standards in Unit 4MD1, 4MD2, 4MD3, 4MD4, 4MD4, 4MD6, 4MD7 4G1, 4G3 4OA3 4NBT4, 4NBT5, 4NBT6 4NF1, 4NF2, 4NF3, 4NF3a, 4NF3b, 4NF3c, 4NF3d, 4NF4, 4NF4a, 4NF4b, 4NF4c, 4NF5, 4NF6</p>				
<p>Lessons</p> <ol style="list-style-type: none"> 1: Converting Liquid Measures: US Customary System 2: Exploring Fraction Multiplication Systems 3: A Fraction as a multiple of a Unit Fraction 4: Multiplying Fractions by Whole Numbers 5: Multiplying Mixed Numbers by Whole #'s 6: Three-Fruit Salad (2 days) 7: Multistep Division Number Stories 8: Division Measurement Number Stories 9: Generating & Identifying Patterns 10: Solving Multistep Fraction Number Stories 11: Weights of State Birds 12: Decimal # Stories 13: Displaying Insect Data 	<p>Lessons</p> <ol style="list-style-type: none"> 1: Extended Multistep Number Stories 2: Real-Life Angle Measures as Additive 3: Pattern-Block Angles (2 days) 4: Extending Line Symmetry 5: Line Plots: $\frac{1}{2}$, $\frac{1}{4}$, and $\frac{1}{8}$ inches 6: Fractions & Perimeter 7: More Decimal Number Stories 8: Areas of Rectangles with Fractional Side Lengths 9: More Fraction Multiplication # Stories 10: Fractions & Liquid Measure 11: Fractions & Measurement 12: Applying Understanding of Place Value & Operations 13: Many Names of #'s 				

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Fifth Grade Units of Study

Unit 1 September 13 – October 10	Unit 2 October 12th – November 9	Unit 3 November 13 – December 14	Unit 4 December 17 – January 24	Unit 5 January 25 – February 27	Unit 6 February 28 – March 27
Main Concepts <ul style="list-style-type: none"> Interpreting Parenthesis Area Volume Standards in Unit 5MD1, 5MD3, 5MD3a, 5MD3b, 5MD4, 5MD5b, 5MD5c 5NF4, 5NF4b	Main Concepts <ul style="list-style-type: none"> Place Value Relationships – Multi-digit #'s Exponential Notation Multiplying & Dividing Whole #'s Standards in Unit 5MD1 5OA1, 5OA2 5NBT1, 5NBT2, 5NBT5, 5NBT6	Main Concepts <ul style="list-style-type: none"> Fraction Number Stories Fraction Comparisons Adding & Subtracting Fractions & Mixed #'s Standards in Unit 5OA2 5NBT6 5NF1, 5NF2, 5NF3, 5NF4, 5NF4a, 5NF6	Main Concepts <ul style="list-style-type: none"> Place Value with Decimals Represent Decimals on grids & number lines Coordinate grids Adding & Subtracting Decimals Standards in Unit 5G1, 5G2 5OA3, 5NBT1, 5NBT3, 5NBT3a, 5NBT3b, 5NBT4, 5NBT7 5NF5, 5NF5a	Main Concepts <ul style="list-style-type: none"> Multiplying & Dividing Fractions Adding & Subtracting Mixed Numbers Equivalent Fractions Standards in Unit 5NF1, 5NF2, 5NF3, 5NF4, 5NF4a, 5NF4b, 5NF5, 5NF5a, 5NF5b, 5NF6, 5NF7, 5NF7a, 5NF7b, 5NF7c	Main Concepts <ul style="list-style-type: none"> Multiplying & Dividing Decimals Exponents Analyzing Measurement Data Estimating Volume Standards in Unit 5MD1, 5MD2, 5MD3, 4.5 W5MD4, 5MD5, 5MD5b 5MD5c 5OA1, 5OA2 5NBT1, 5NBT2, 5NBT3, 5NBT3a, 5NBT3b, 5NBT5, 5NBT6, 5NBT7 5NF1, 5NF2, 5NF3, 5NF5, 5NF5a, 5NF5b
Lessons 1: Introduction to Student Reference Book 2: Area of Rectangles (1) 3: Quilt Areas (2 days) 4: Area of Rectangles (2) 5: Introduction to Volume 6: Exploring Nonstandard Volume Units 7: Measuring Volume by Counting Cubes 8: Measuring Volume by Iterating Layers 9: 2 Formulas for Volume 10: Visualizing Volume 11: Volume Explorations 12: Playing Prism File Up	Lessons 1: Understanding Place Value 2: Exponents & Power of 10 3: Applying Powers of Ten 4: US Traditional Multiplication (Parts 1 & 2) 5: Application: Unit Conversions 6: US Traditional Multiplication (Parts 3 & 4) 7: One Million Taps (2 days) 8: A Mental Division Strategy 9: Reviewing Partial Quotient Division 10: Strategies for Choosing Partial Quotients	Lessons 1: Connecting Fractions & Division (2 days) 2: Application: Interpreting Remainders 3: Fractions on a Number Line 4: Game Strategies (2 days) 5: Fraction Estimation with Number Sense 6: Fraction Estimation with Benchmarks 7: Renaming Fractions & Mixed #'s 8: Introduction to Adding and Subtracting Fractions & Mixed #'s 9: Exploring addition of Fractions with Unlike Denominators	Lessons 1: Decimal Place Values 2: Representing Decimals through Thousandths 3: Representing Decimals in Expanded Form 4: Comparing & Ordering Decimals 5: Rounding Decimals 6: Introduction to the Coordinate Grid 7: Playing Hidden Treasure 8: Solving Problems on the Coordinate Grid (2 days) 9: Folder Art (2 days) 10: Addition & Subtraction of Decimals with Hundredth Grid 11: Decimal Addition Algorithms	Lessons 1: Using Equivalent Fractions to Find Common Denominators 2: More Strategies for Finding Common Denominators 3: Addition of Fractions & Mixed #'s 4: Subtraction of Fractions & Mixed #'s 5: Connecting Fraction-Of Problems to Multiplication 6: Multiplication of Fractions & Whole #'s 7: Fractions of Fractions 8: Area Models for Fraction Multiplication 9: Understanding an Algorithm for Fraction Multiplication 10: Sharing Breakfast (2 days)	Lessons 1: Multiplying & Dividing Decimals by Powers of 10 2: Playing Exponent Ball 3: Application: Converting Measurements in the Metric System 4: Line Plots 5: Working with Data in Line Plots 6: Applying Volume Concepts 7: Measuring Volume by Displacement 8: Estimating Decimal Products & Quotients 9: Multiplication of Decimals 10: Fundraising (2 days) 11: Division of Decimals by Whole #'s

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	11: Interpreting the Remainder	10: Playing Fraction Capture 11: Solving Fraction # Stories 12: Fraction Problems (2 days)	12: Decimal Subtraction Algorithms 13: Addition & Subtraction of Money	11: Explaining the Equivalent Fractions Rule 12: Fraction Multiplication # Stories 13: Fraction Division (2 days)	12: Division of Decimals by Decimals 13: Application: Estimating your Reaction Time
Unit 7 March 28 – May 2	Unit 8 May 3 – May 31				
Main Concepts <ul style="list-style-type: none"> • Multiplication of Fractions & Mixed #'s • Properties of polygons • Line Plots & Coordinate Grids Standards in Unit 5MD1, 5MD2 5G1, 5G2, 5G3, 5G4 5OA2, 5OA3 5NF1, 5NF2, 5NF3, 5NF4, 5NF4a, 5NF4b, 5NF5, 5NF5a, 5NF5b, 5NF6, 5NF7, 5NF7a, 5NF7b, 5NF7c	Main Concepts <ul style="list-style-type: none"> • Area Formula Strategies • Volume Relationships • Data Applications • Unit Conversions Standards in Unit 5MD1, 5MD3, 5MD5, 5MD5a, 5MD5b, 5MD5c 5G1, 5G2 5OA3 5NBT2, 5NBT4, 5NBT5, 5NBT6, 5NBT7 5NF1, 5NF4, 5NF4b, 5NF6				
Lessons 1: Multiplication of Mixed #'s (2 days) 2: Rectangles with Fractional Side Lengths 3: Using Common Denominators for Fraction Division 4: A Hierarchy of Triangles 5: A Hierarchy of Quadrilaterals 6: Playing Property Pandemonium 7: A Hierarchy of Polygons (2 days) 8: Collecting & Using Fractional Data 9: Identifying & Visualizing Patterns 10: Rules, Tables, & Graphs (2 days) 11: Old Faithful's Next Eruption	Lessons 1: Planning an Athletic Center 2: Applying the Rectangle Method for Area 3: Planning an Aquarium 4: A Treasure Hunt (2 days) 5: Spending \$1,000,000 6: Earning \$1,000,000 7: Paying Off the National Debt 8: A Footstep Problem 9: Finding Your Heart Rate 10: Finding Your Cardiac Output 11: Pendulums (2 days)				

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