



2nd Grade EDM 2007 to Alaska GLEs

Unit 1					
Lesson	MM&R	Math Mess		Lesson parts 1 & 2	Lesson part 3 (Readiness & Extra Practice)
.1	N7	1PS6	N1	N1 Number of School Days Routine 4thN1 Number Sequences Starting with 1,000 N1 Writing Numbers on a Number Line N1 Number Lines	R: N1 Playing Number-Line Squeeze E: F&R1 Counting with Roman Numerals
.2	N7	S&P2	Mea10	N1 Introducing Slate Routines with Number Order Mea10 Finding the Values of Coin Combinations Mea10 Counting Coins	R: N1, Mea4 Sorting and Counting Coins E: Mea12 Finding Equivalent Coins EP: N7 Counting by Fives
.3	N7	Mea8	Mea7	1Mea6 Building a Calendar 1Mea6; N1 completing a Calendar Page Mea7 Telling Time Mea7 Telling Time on Clocks	R: 1N3 Listening for Your Number E: 6thMea4 Listing My Activities
.4	N1	Mea7, 9		1PS6 Exploring the Everything Math Deck E&C2 Playing Addition Top-It F&R1 Exploring Number Grid Patterns	R: N1 Playing Addition Top-It E: Mea10 Playing Coin Top-It
.5	N7	E&C5	E&C5	N2 Playing the Money Exchange Game with \$100 Bills N2; E&C4 Playing the Money Exchange Game or Addition Top-It	R: Mea12 Playing the Penny-Nickel Exchange E: E&C5 Finding Number Grid Number Combination to 100
.6	N2	1PS6	F&R3	F&R3; E&C4 Playing Penny Plate	R: F&R3 Playing Two-Fisted Penny Addition EP: E&C5 Complements of 10
.7	Mea7	N7; F&R1	N7; F&R1	F&R1 Exploring Counting Patterns N1 Making a Class Number Scroll E&C4 Playing Addition Top-It	R: N7 Counting on the Number Grid E: N1 Making Individual Number Scrolls EP: F&R1 Number Patterns

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.8	N7	N1, 7	F&R1	F&R2 Finding Patterns on a Number Grid F&R1 Completing Number-Grid Puzzles N1 Playing the Number-Grid Game	R: F&R1 Filling In Pieces of a Number Grid E: N2; F&R1 Making Number-Grid Puzzle Pieces
.9	E&C4	1stPS6	E&C4; PS1	E&C4 Reviewing Equivalent Names for Numbers N7 Counting on a Calculator E&C4 Solving Broken Calculator Problems N2; 3N2 Solving Hundreds-Tens-and -Ones Problems	R: F&R4; 1N6 illustrating Equivalencies Using Pan Balance and Identical Objects E: 3rdN2; F&R3 Solving Calculator Place-Value Puzzles
.10	N2; 3N2	N7	Mea12	N7, 2 Counting with a Calculator E&C4; PS1 Solving Broken Calculator Problem	R: N7 Counting by 2s, 5s, and 10s E; F&R2 Solving Calculator Count Problems
.11	N1	F&R4	N1	F&R4; PS3 Reviewing Relations: Less Than, Greater Than, Equal To F&R4; PS3 Practice Using the Symbols for Less Than, Greater Than, Equal To E&C4 Playing Addition Top-It F&R4; PS3 Relations	R: KF&R5 Showing Equalities and Inequalities with a Pan Balance E: 3rdN2 Playing Number Top-It with 5-digit Numbers
.12	N7	1stPS6	N7	4thMea2 Measuring Temperature E&C5 Calculating the Values of Base-10 Structures E&C4 Sorting Dominoes E&C4 Playing Addition Top-it 4thMea2 Temperatures	R: KMea1; 4thMea2 Making a Base 10 a Thermometer N5; Naming Fact Families

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Unit 2					
Lesson	MM&R	Math Mess		Lesson parts 1 & 2	Lesson part 3 (Readiness & Extra Practice)
.1	N5	PS3	PS1, 3, & 5	PS1, 3, & 5 Making Up and Solving Addition Number Stories PS1, 3 Writing Number Stories F&R1 Completing Number-Grid Puzzles PS1, 3, & 5 Addition Number Stories	R: 1stN6 Joining Objects E: PS1 Making a Number Stories Bulletin Board or Book
.2	PS2, 3	PS1, 2		E&C4 Reviewing +0 and +1 Shortcuts E&C4 Demonstrating Beat the Calculator E&C4 Playing Beat the Calculator N5 Finding Distances on a Number Grid E&C4 Addition Facts	R: E&C4 Domino Top-It E: PS1 Writing +0 and +1 Number Stories
.3	E&C4	E&C4	F&R1	N5 Reviewing the Meaning of Sum F&R1 Reviewing the Facts Table F&R2 Reviewing the Doubles Facts E&C4 Practicing Doubles Facts and Almost Doubles Facts E&C4 Demonstrating and Playing Doubles or Nothing E&C4 Doubles Facts	R: N5 Representing Doubles E: F&R1 Finding the Patterns in the Facts Table EP: E&C4 Finding Doubles in Literature
.4	N5	E&C4; F&R1	E&C4	E&C4; F&R1 Introducing the +9 Shortcut E&C4 Practicing +9 Facts E&C4 Playing Beat the Calculator N6; E&C4 Turn-Around, Doubles and +9	R: N5; F&R1 Demonstrating the +9 Shortcut with Fames and Counters EP; E&C4 Shortcuts for Subtraction Facts ELL: N6 Modeling Turn-Around Facts
.5	E&C4	E&C4	E&C4	F&R2 Discussing Doubles-Plus-1 Facts F&R2 Doubles-Plus-2 Facts E&C4 Practicing Addition Strategies that Use Doubles Facts E&C4 Playing Domino Top-It E&C4 Addition Facts Maze	R: PS5 Designing a Doubles Fact Book E: F&R1 Exploring Calculator Doubles


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.6	E&C4	PS1		F&R2 Discussing the -0 and the -1 Shortcuts N5, 6 Using Dominoes to Generate Related Addition and Subtraction Facts E&C4 Practicing Domino Facts E&C4 Practicing Addition Facts E&C4; N5 Domino Facts	R: N5 Exploring Domino Facts E: N5 Exploring Dice Subtraction with Negative Differences
.7	PS2, 3	N5, 6	N5, 6	N5, 6 Discussing Fact Families N5, 6 Demonstrating the Use of +, - Fact Triangles E&C4 Practicing with Fact Triangles PS2, 3 Solving Subtraction Number Stories N5, 6 Fact Triangles	R: N5 Solving Subtraction Facts with Counters E: F&R3 Finding Subtraction Mystery Numbers ELL: N5, 6 Making a Fact Family Chain
.8	N5	Mea3	N5	Mea3 Demonstrating the Pan Balance Mea2, 3 Demonstrating the Spring Scale Mea2 Using a Pan Balance Mea3 Using a Spring Scale E&C6 Making Equal Groups of Objects E&C4 Playing Beat the Calculator Mea2 Weighing Things	R: Mea2 Comparing Weight E: 4 Mea2 Estimating Weight EP: Mea2 More Experience with Time, Weight, Length and Volume
.9	N2	E&C4	E&C4; PS1, 2, & 3	E&C4; PS1, 2 & 3 Demonstrating and Playing Name That Number E&C4; PS1, 2 & 3 Practicing with Name Collection Boxes E&C4; PS1, 2 & 3 Name Collection Boxes	R: F&R3 Playing 2-Fisted Penny Addition E: E&C4; PS1 Exploring Name-Collection Boxes
.10	N7	F&R1	F&R1	F&R1, 2 Demonstrating Frames and Arrows Routines F&R1, 2 Completing Frames-and-Arrows Diagrams E&C4; PS1, 2 & 3 Playing Name That Number F&R 1, 2 Frames-and-Arrows Problems	R: F&R1, 2, & 3 Counting on a Number Line E: PS1, 2, & 3 making Up Frames-and-Arrows Problems

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.11	N7	PS1, 2	F&R1, 2	<p>F&R1, 2 Establishing What's My Rule Routines F&R1, 2 Using Function Machines to Illustrate What's My Rule Tables F&R1, 2 Solving What's My Rule Problems E&C4 Practicing with +,- Fact Triangles F&R1, 2 "What's My Rule?"</p>	<p>R: F&R2 Fishing for the Rule E: F&R1, 2 Creating What's My Rule Tables</p>
.12	N1	PS1	N5, 6	<p>N5 Reviewing the Meaning of Difference N1 Reviewing Counting-Back Strategy for Subtraction N1 Reviewing Counting-Up Strategy for Subtraction E&C4 Practicing with +, - Fact Triangles E&C4 Playing Beat the Calculator E&C4 Subtraction Maze</p>	<p>R: 1N6, N5 Playing the Difference Game E: N5 Playing the Number-Grid Difference Game EP: E&C4 Practice with Addition and Subtraction</p>
.13	E&C4	PS1	PS1	<p>F&R1 Introducing the -9Shortcut F&R1 Introducing the -8Shortcut E&C4 Practicing the -9 and -8 Shortcuts E&C4 Practicing with +, - Fact Triangles E&C4 Addition/Subtraction Facts</p>	<p>R: N5 Using a Ten-Frame Card to Demonstrate the -9, and -8 Shortcuts EP: E&C4 Practicing Subtraction Shortcuts</p>


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Unit 3					
Lesson	MM&R	Math Mess		Lesson parts 1 & 2	Lesson part 3 (Readiness & Extra Practice)
.1	PS2, 3	N2	N2	N2 Exploring a simple Way to Draw Base-10 Blocks N2 Matching Numbers and Displays of Base-10 Blocks N2 Doing Place-Value Exercises N2 Playing the Digit Game N2 Place Value	R: N2 Counting Practice E:4thE&C5 Creating 3-Digit Numbers
.2	N7	Mea10	Mea12	Mea4 Reviewing Exchanges for Coins and \$1 Bills Mea12 Paying for Things with Coins Mea12 Taking Turns Buying and Selling Mea4, 12; S&P5 Playing Sinning for Money Mea10 How Much Does It Cost?	R: Mea4 Playing Penny-Nickel or Penny-Dime-Dollar Exchange E: PS1, 2, & 3 Writing Fruit and Vegetables Stand Number Stories
	S&P1	Mea7	S&P1	Mea7 Discussing the Functions of Clock Hands Mea7 Estimating Time with an Hour hand Only Mea7 Estimating Time with the Hour Hand and the Minute Hand Mea7 Telling and Writing Time E&C4 Practicing with +,- Fact Triangles Mea7 Times of Day	R: Mea7 Illustrating Daily Activities E: 6thMea5 Calculating Elapsed Time
.4	E&C5	N2	Mea7	N2 Building and Renaming Numbers Mea7 Making a Clock Booklet G4 Making and Comparing Geoboard Shapes PS1, E&C4 Completing Magic Squares N2 "What's My Rule?" with Blocks	R: N2 Playing Base-10 Exchange EP: N2, G4, M7 Experience with Digits, Shapes and Time

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.5	F&R3	PS3	PS1, 2, & 3	S&P4 Finding the Middle Number of Pockets S&P1, 2 Tallying the Pockets Data S&P1, 2 Making a Bar Graph of the Pockets Data E&C5 Practicing Complements of 100 by Playing Dollar Rummy S&P1, 2 Pockets Bar Graph	R: S&P1 Recording Tally Marks E: S&P1, 2, & 3 Comparing Data
.6	PS2, 3	F&R1	F&R1, 2 PS1	F&R1, 2 Solving Frames-and-Arrows Diagrams Having Two Rules F&R1, 2 Solving Frames-and-Arrows Problems F&R1, 2; PS1 Creating Frames-and-Arrows Problems	R: F&R1, 2 Counting Up and Back on a Number Line E: F&R1, 2 Solving Frames-and-Arrows Puzzles
.7	N7	Mea12		Mea12; 3Mea9 Demonstrating How to make Change by Counting Up Mea4; E&C4; 4Mea9 Acting as Customer or Clerk N2 Playing the Digit Game 3Mea9 Change at a Garage Sale	R: E&C4, N5 Playing High Roller E: PS1, M4 Solving a Coin Puzzle
.8	Mea10	1stPS6	Mea10	Mea10 Buying Items with Exact Change 3rdMea9 Buying Items without Exact Change Mea10; 3Mea9 making Vending Machine Purchases 3rdMea9 Practice Making Change 3rdMea9 Counting Up to Make Change	R: N7 Counting on the Number Grid with Coins E: F&R1, E&C4 Calculating the Value of a Name EP: Mea4, 10, 12 Mixed Practice with Money


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Unit 4					
Lesson	MM&R	Math Mess		Lesson parts 1 & 2	Lesson part 3 (Readiness & Extra Practice)
.1	Mea10	Mea2	E&C5; PS2, 3	PS2, 3 Introducing the Change Diagram E&C5; PS2, 3 Solving Change-to-More Number Stories N5; E&C5 Finding Distances on a Number Grid E&C5; PS2, 3 Change Number Stories	R: 4thMea2 using a Scale to Show More or Less E: PS1 Writing Change-to-More Stories
.2	Mea10	E&C4, 5	E&C5; PS2, 3	E&C5; PS2, 3 Finding the Cost of Two or More Items E&C5 Playing Addition Spin E&C5; PS2, 3 Parts-and-Total Number Stories	R: N5 Solving Parts-and-Total Problems with Manipulatives E: PS1; F&R3 Creating Missing-Part Number Stories
.3	E&C5	\$Mea2		4thMea2 Translating between Fahrenheit and Celsius Temperatures 4thMea2 Measuring Temperatures Mea10 Making Coin-Stamp Booklets G1; F&R1, 2 Sorting Attribute Blocks E&C5 Playing Addition Spin 4thMea2 Reading a Thermometer	R: 4Mea2 Reading and Setting Temperatures E: G1 Finding Pattern Block Attributes
.4	N7	3thPS5	4thMea2; PS1, 2, 3 E&C5	PS1, 2, 3; E&C5 Solving "How Much Warmer (Cooler)?" Problems 4thMea9; PS1, 2, 3; E&C5 Reading and Showing Temperatures and Solving Temperature-Change Problems PS1, 2, 3; E&C5 Solving Parts-and-Total Number Stories 4thMea2; E&C5: Change Number Stories and Temperature	R: 4thMea2; E&C5 Comparing Thermometers E: PS1 Writing Number Stories about Thermometer Experiments

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.6	E&C5	E&C5	E&C5; PS2, 3	E&C5 Discussing Strategies for Adding 2-Digit Numbers E&C5 Using Shopping Strategies E&C5; PS2, 3 Solving Shopping Problems E&C5 Playing Addition Spin E&C5, PS2, 3 Addition Number Stories	R: N5 Adding Multiples of 10 EP: E&C5 Adding Costs of 2 Items
.7	E&C5	Mea5		Mea1; 4Mea1 Examining Inch and Centimeter Scales Mea1; 4Mea1 Measuring Lengths with a Tape Measure G8: Tiling surfaces with Different Shapes G1; F&R2 Sorting Attribute Blocks E&C4 Practicing with +,- Fact Triangles Mea1 Measuring to the Nearest Inch	E: PS1 Finding More Than One Way
.8	E&C5	E&C2	E&C2	E&C2 Discussing the Use of Ballpark Estimates to Check Answers E&C5, 2 Solving Addition Problems E&C5 finding the Sum of Two Multi-digit Numbers E&C5 Playing the Fact Extension Game E&C5 Addition Strategies	R: F&R1 Modeling Addition and Subtraction Properties of 10's E: E&C5; PS1 Finding New Methods to Solve Multi=digit Addition Problems
.9	E&C5	E&C2	E&C5	E&C5; N5 Introducing the Partial-Sums Addition Algorithm Using Base-10 Blocks E&C5; N5 Practicing Addition Using Base-10 Blocks E&C2, 5 Introducing the Partial-Sums Algorithm as a Paper-and-Pencil Method E&C5 Practicing the Partial-Sums Algorithm Mea7 Reviewing Telling Time E&C5 Playing the Fact Extension Game E&C2, 5 Place Value (2-Digit Addition)	R: N5 Reviewing Place Value Concepts E: PS4 Using Addition Strategies EP: F&R1 Adding Multiples of 10


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Unit 5					
Lesson	MM&R	Math Mess		Lesson parts 1 & 2	Lesson part 3 (Readiness & Extra Practice)
.1	E&C5	F&R2		F&R2 Finding Attribute Rules E&C7 Exploring Equal Sharing Mea7 Making Cards and Doing a Clock Concentration Activity E&C5 Playing Addition Spin F&R2 "What's My Attribute Rule?"	R: Mea7 Showing the Time EP: Mea7; 4Mea6 Telling Time to Various Intervals (Nearest 5-Minutes)
.2	PS 2,3	G3	G11	G11 Discussing How Points are Named G11 Defining and naming Line Segments G11 Drawing Line segments with a Straightedge Mea7 Doing a Clock Concentration Activity G11 Line Segments (Drawing Figures)	R: G5 Making Geoboard Designs E: F&R1 Creating a Line Segment Design
.3	3rdMea9	4thG8	4thG8	4thG8 Discussing the Meaning of Parallel line Segments 4thG8 Drawing Line Segments That Are or Are Not Parallel F&R1, 2 Solving What's My Rule and Frames-and-Arrows Problems 4thG8 Parallel Line Segments	R: G11 Drawing line Segments E: 6thG11 Solving Pattern Block Puzzles
.4	E&C5	1G2	1G2	G1 Reviewing Characteristics of Polygons G1 Naming Polygons by the Number of Their Sides or Angles G11 Constructing Polygons on a Geoboard E&C6 Making Centimeter-Cube Arrays F&R1 Finding Attribute Blocks That Differ by One Attribute or More E&C5 Playing Dollar Rummy G3 Polygons (from newspapers)	R: G4, 11 identifying Pattern-Block Template Shapes E: G4 Investigating Polygons with Geoboards EP: G3 Finding Shapes around the Room

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.5	E&C2	G4	E&C2	G4 Exploring Similarities and Differences among Quadrangles G4 Making Shapes our of Triangles and Rectangles E&C4; PS2, 3 Playing Name That Number G4 Quadrangles	R: G4 Sorting Pattern Blocks E: PS1 Exploring Tangrams
.6	E&C2	G4	3rdM9	G2 Reviewing the Names of Basic 3-Dimensional Shapes G2, 4 Discussing Similarities and Differences among Shapes G3 Identifying Shapes of Real Objects G11 Drawing and Counting Line Segments G3, G11 3-D Shapes	E; PS1; F&R1 Solving Shape Riddles EP: G2 identifying Shapes
.7	E&C5	G4	F&R1	G5 Constructing a Pyramid out of Straws G4, 5 Constructing 4 Kinds of Pyramids out of Straws G4 Discussing Pyramid Constructions E&C4 Playing Beat the CalculatorG5 make a Triangular and Square Pyramid	R: G4, 5 Constructing Polygons out of Straws and Twist Ties E: G4 Discussing Pyramid Construction ELL: G4 Discussing the Shapes Museum
.8	E&C5	G4	G4, 6	G6 Finding Lines of Symmetry G4, 6 Completing Half-Pictures of Template Shapes E&C5, F&R1 Playing the Fact Extension Game	R: G5 Exploring line Symmetry wth Pattern Blocks E: G6 making a Symmetry Booklet


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Unit 6:					
Lesson	MM&R	Math Mess		Lesson parts 1 & 2	Lesson part 3 (Readiness & Extra Practice)
.1	E&C4, 5	E&C5	E&C4, 5	E&C4, 5 Adding Three Numbers in Any Order E&C4, 5 Playing Three Addends E&C2, 5 Practicing Estimation and the Partial-Sums Algorithm E&C4, 5 Adding Three Numbers	R: 1N6 Finding Sums of 10 using a Ten Frame Card E&C4, 5 Adding with 4 or More Addends
.2	E&C4, 5	PS2, 3	PS2, 3	PS2, 3 Solving Comparison Number Stories (reading and practice) E&C4 Playing Addition Top-It PS2, 3 Comparison Stories	R: F&R3 Doing a Penny Grab Activity E: PS2, 3 Comparing number Stories
.3	PS2, 3	S&P1		S&P1, 2 Collecting Data on Favorite Foods S&P1, 2 Discussing the Favorite-Food Data Table S&P1 Making a Bar Graph of the Favorite-Food Data PS2, 3 Comparing Lengths of Fish on the Fish Poster S&P1, 2 Graphing Data	E: S&P1 Collecting Favorite-Food Data EP: S&P2 Making a Listening Tally
.4	E&C4, 5	S&P1	PS2, 3	PS2, 3 Selecting Diagrams and Solving Number Stories E&C2 Reviewing Ballpark Estimation PS1, 2, & 3 Number Stories and Diagrams	R: 1stN6 Solving a Partner's Number Story E: PS1, 2, & 3 Using Different Diagrams to Write Number Stories EP: PS1, 2, & 3 Making up and Solving Number Stories
.5	E&C5	E&C5; PS3, 4	S&P5	N5 Using Base-10 Blocks to model Subtraction E&C5 Solving Subtraction Problems E&C5; F&R1 Playing the number-Grid Difference Game N5 Subtracting with Base-10 Blocks	R: N2 Playing the Base-10 Trading Game E: PS4 Analyzing a Subtraction Strategy

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.6	E&C2	E&C6		E&C6 Making Geoboard Arrays 4thMeas8 Making a Dollar (all combinations) E&C7 Finding How Many Children Get n Things E&C4, 5 Playing Three Addends E&C6 How Many?	E: PS1, 2 Solving Dollar Riddles EP: M12 Equal Values of Coins
.7	PS2, 3	E&C6; PS2, 3,&4	E&C6; PS2, 3,&4	E&C6; PS2, 3 Solving Number Stories about Equal Groups (demonstration and practice) E&C5 Practice with +,- Fact Triangles E&C6; How Many	R: E&C6: Finding Totals for Equal Groups E: E&C6 E Solving Equal Group Riddles EP: E&C6 Equal Groups in Literature ELL: E&C6 Drawing Pictures of Multiplication
.8	E&C6	E&C6	E&C6; 3rdE&C5	E&C6, 4N7 Creating and Solving Number Stories about Arrays E&C6; 3rdE&C5 Solving Multiplication Problems E&C5 Playing the Fact Extension Game E&C6 Arrays	R: E&C6 Playing Simon Says E: PS1, 2, &3 Creating Array Number Stories ELL: E&C6 Draw Arrays to Exemplify the Word
.9	E&C5	E&C6	M1	E&C6 Introducing and Playing Array Bingo (3 sections) E&C6 Arrays	R: E&C6 Building Arrays 4N12 Finding Arrays
.10	E&C4, 5	E&C7		E&C7 Modeling Equal-Sharing Number Stories (2 sections) E&C7 Solving Division Number Stories E&C5; F&R1 Playing the Number Grid Difference Game E&C7 Division	R: PS2, 3 Sharing Cookies Equally E: 4thN8 Using a Multiplication Diagram For Division ELL: E&C6, 7 Writing Multiplication and Division Phrases


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Unit 7					
Lesson	MM&R	Math Mess		Lesson parts 1 & 2	Lesson part 3 (Readiness & Extra Practice)
.1	E&C6	N7	N7	N7 Skip Counting on a Calculator F&R1 Using a Calculator to Find Patterns on a Number Grid E&C4 Practicing with + & - Fact Triangles N7 Count by 2s, 5s, and 10s	R: N7 Counting by 2s, 5s, and 10s E: F&R1 Exploring Patterns on a Number Chart EP: F&R1 Making Patterns by Coloring Grids ELL: F&R1 Finding Patterns in Multiples of 2, 5 and 10
.2	M12	E&C4	E&C5	E&C5 Making 10s using a Calculator E&C5 Introducing Hit the Target E&C5 Solving Subtraction Problems E&C4, 5 Missing Addenda	R: N5, PS5 Making multiples of 10 EP: F&R1 Finding the Next Multiple of 10
.3	E&C5	E&C5		E&C4, 5 Demonstrating and Playing Basketball Addition PS1, E&C6 Creating and Solving Number Stories about Equal Groups E&C5 Who Scored More Points	R: N5, E&C5 Using Base-10 Blocks to Add E: PS2, 3 Solving Addition and Subtraction Puzzles
.4	E&C4, 5	F&R1	F&R1	F&R1 Doubling and Halving Numbers E&C5 Playing Hit the Target F&R1 Halves and Doubles	R: N3, F&R1 Exploring Halves and Doubles E: N3, F&R1 Quadrupling and Quartering Numbers
.5	5thE&C3	4thM2		4thM2 Weighing with a Bath Scale E&C7 Sharing Money F&R1 Creating Two-Block Patterns E&C5 Playing Hit the Target 4thM2 Estimating Weight	R: M12 Counting coins to \$1.00 E: 4thM2 Estimating Weight E: M2 Comparing Weights
.6	E&C5	M1; 4thM5	M1; 4thM5	4thM5 Collecting and Recording Standing long Jump Data M1; S&P1 Collecting and Recording Arm Span Data E&C6 Playing Array Bingo M1 Comparing Arm Spans	R: 4thM1 Measuring Objects E: PS1, E&C5 Making Up and Solving Number Stories

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.7	5S&P4	3 & 5 S&P3	M7	S&P1 Sorting the Standing jump Data 4 & 5 S&P3 Finding the Median Length of the Standing Long Jumps 5S&P3 Finding the Middle Value	R: N1 Ordering Numbers E: 5S&P3 Finding the Median
.8	N1; 5S&P3	S&P1	N1; 5S&P3	S&P1, 2 Making a Fr4equency Table of Arm Spans S&P1, 2 Making a Line Plot of Arm Spans S&P1, 2 Making a Bar Graph of Arm Spans 5S&P3 Finding the median lenght of Arm Spans S&P4 Playing Soccer Spin S&P2 Interpreting Data	E: S&P1, 5S&P3 Graphing Data Side by Side EP: N1 Practice Ordering Numbers


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Unit 8					
Lesson	MM&R	Math Mess		Lesson parts 1 & 2	Lesson part 3 (Readiness & Extra Practice)
.1	E&C4, 5	N3	N3	N3 Folding Squares into Equal Parts N3 Reviewing Basic Fraction Concepts N3 Writing Fraction for Parts of Regions 4S&P5 Dressing for School N3 Equal Parts	R: N3 Finding the Relationships among Pattern Blocks E: N3 Dividing Shapes into Equal Parts EP: N3 Naming Equal Parts ELL: N3 Illustrating Numerator and Denominator
.2	N1; FS&P3	N3		N3 Comparing Pattern Blocks, One of Which Represents One N3 Comparing Pairs of Shapes When One Shape Represents One E&C6 Making Arrays with Geoboard Fences 6thG9 Finding the Volumes of Base-10 Structures E&C4 Practicing with +, - Fact Triangles N3 Fractions of Shapes	R: N3 Naming Fractional Parts of a Region E: N3 Solving Fraction Puzzles EP: N3 Finding Parts of a Whole
.3	M12	N3	M12	N3 Identifying Fractions of Collections of Pennies N3 Finding Fractions of Collections of Things N3 Writing Fractions for Parts of Regions N3 Fractions of Collections	R: N3 Exploring Fractions E: PS1; N3 Finding All the Marbles EP: N3 Using Fractions to Name Parts of Regions and Sets
.4	N3	N3	N2	N3; 3N5 making a Display of Equivalent Fractions PS 1, 2 ; E&C 4, 5 Playing Name That Number N3 Shading Fractional Parts	R: N3 Sorting Circles E: 3rdN5 Covering Hexagons EP: PS1, 2, & 3 making Fraction name-Collection Boxes
.5	5S&P3	3N5		N3 Using Fraction Cards to Review and Extend Fraction Concepts 3rdN5 Playing the Equivalent Fractions Game N3 Finding Fractions of Collections 3rdN5 Fractions of Regions	E: N3 Showing Equivalent Fractions for $\frac{1}{2}$ EP; N3 Practice with Measurement Fractions

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.6	E&C5	N3	M7; 3M4	N3 Identifying Fractions That Are Less Than, More Than, or Equivalent to $\frac{1}{2}$ 3rdN5 Playing Fraction Top-It 3rdN5 Playing the Equivalent Fractions Game 3rdN5 More of Less Than $\frac{1}{2}$	R: 3rdN5 Sorting Fraction Cards E: N3; 3M5 Figuring Who Has more EP: N3 Estimating Regions That Are Less Than $\frac{1}{2}$, Greater Than $\frac{1}{2}$, or About $\frac{1}{2}$
.7	N3	N3	N3: PS2, 3	N3; PS2, 3 Making Up and Solving Fraction Number Stories N3; PS2, 3 Solving and Making Up Fraction Number Stories 3rdN5 Playing Fraction Top-It N3: PS2, 3 Fractions	R: N3; PS2, 3 Acting Out Number Stories E: N3; PS2, 3 Making Books of Fraction Number Stories EP: N3; PS2, 3 Fraction Number Stories


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Unit 9					
Lesson	MM&R	Math Mess		Lesson parts 1 & 2	Lesson part 3 (Readiness & Extra Practice)
.1	4thrdS&P3	3M4	4thS&P3	3rdM4 Measuring Length with a Nonstandard Unit M3 Introducing Yard and Meter as Standard Lengths M1; 4M3 Checking Estimates by Measuring Distances with Yardsticks 4thS&P4 Finding All Possible Outcomes M5 Using Measurement	R: M3 Measuring Length with a Nonstandard Unit E: PS1 Comparing Crooked Paths
.2	N3	M5	M1; 4thM5	M1; 4M5 Measuring to the Nearest Inch and Centimeter M1; 4M5 Revisiting Foot and Decimeter 4thM3 Beginning a Table of Equivalent Measures M1; 4M5 Measuring Feet and Inches, Decimeters and Centimeters E&C3, 4; PS1, 2 Playing Name That Number M1 Linear Measurements	R: M3 Measuring more or Less than One Foot EP: M2 Constructing a display of Fish Lengths ELL: M3 Comparing Units of Measure
.3	4thM3	3rdM2	M1; 4M5	M1 Discussing the need for Accurate Measurements N3 Introducing Fractional Units of Length M1; 4M5 Measuring to the nearest Half-Inch and Half-Centimeter 4M1 Measuring Length	R: 3M2 Comparing Lengths of Objects E: 4M3 Comparing Units of Metric Linear Measurement
.4	N3	4thM5	M1; G7	G7 Investigating Perimeters of Rectangles G7 Investigating Perimeters of Polygons E&C5; F&R1 Playing the Number-Grid Difference Game PS2, 3; 4G4 Perimeter	R: 3M2 Measuring Boxes E: G8; 3M2 Measuring Perimeter in Paces

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.5	N3	4thM3	N3	3rdM4 Introducing units Used to Measure longer distances 4thG7 Introducing Road-Map Stories PS1, 2 & 3 Solving Road Map Stories E&C5 Practicing 2-Digit Addition 3rdPS5 Travel Interview	R: G10 Locating Cities on a Map E: PS2, 3; 3E&C2 Driving in the West EP; 3M2 Choosing the Best Unit of Measure
.6	3rdN5	4thG6		8thG8 Discovering Which Cylinder Holds More G8 Measuring Area with a Centimeter Grid and an Inch Grid M5 Exploring Tools and Measures E&C4 Practicing with Fact Triangles G8; 3M2 Capacity and Area	R: G6 Estimating Area E: 8thG8 Building Equal Capacity Cylinders
.7	4thN5	E&C6	E&C7	G8 Developing Concept of Area G7, 8 Comparing Units Used to measure Area and Perimeter G8, 7 Investigating the Relationships between Perimeter and Area 3rdN5 Playing the Equivalent Fractions Game G7, 8 Area and Perimeter	R: G6 Finding the Areas of Geoboard Rectangles E: PS2, 3; 4G6 Finding the Perimeter EP 3G6 Finding the Areas of Block Letters
.8	3rdM3	3rdPS5	F&R1	5thM3 Demonstrating Equivalent US Customary Units of Capacity 5thM3 Reviewing Equivalent metric Units of Capacity S&P2 Reviewing Line Plot Routine F&R1; 3PS5 Capacity	E: 3rdM2 Measuring the Capacity of Irregular Containers EP; E&C5, 6 More Experience with Capacity
.9	6thM2	3rdM2		M5 discussing the Spring Scale and the Bath Scale 5thM3 Discussing units of Weight 4thM2 Determining How Many Pennies Weigh 1 Ounce M3 Deciding Which Objects Weigh the Same Amount 3rdPS5 Weight	E; 4thM2 Weighing Small Objects EP; N3; PS2, 3 more Experience with Weight

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Unit 10					
Lesson	MM&R	Math Mess		Lesson parts 1 & 2	Lesson part 3 (Readiness & Extra Practice)
.1	4thN5	3rdM5	M10	M12 Reviewing Values of Coins and Bills M12, 3M5 Reviewing Money Exchanges M12 Making Equivalent Amounts with Coins and Bills M12 Coin Combinations	R; M12 Finding Ways to Make a Dollar E; 4ththM9 Planning a Picnic
.2	N3	4thM8	4thM8	3rdM5 Reviewing Decimal Notation for Money 5thN2 Investigation Pennies and Dimes as Fractions of a Dollar M12 Matching a Dollar, a Dime, and a Penny with Their Names F&R1, 2 Calculating Word Values	R: M12 Exploring relationships among Pennies, Dimes and Dollars EP; M12 identifying Groups of Coins Equivalent to \$1.00
.3	3rdM5	3rdM5	3rdM5	3rdM5 Entering Amounts Greater than \$1.00 3rdM5 Entering Amounts Less than \$1.00 in Decimals Displayed on Calculators 3rdM5 Playing Pick-a-Coin 5thS&P3 Finding the Median 3rdM5 Coin (and dollar) Values	R: 3rdM5 Doing Money Calculator Counts E: 3rdM5 Displaying money on the Calculator
.4	M12; 3rdM5	3rdM5	3rdM5	3rdM5 Discussing the Then-and-Now Poster 5thE&C3 Making Rough Comparisons between Then-and-Now Prices 5thE&C3 Using a Calculator to Solve Then-and-Now Problems 3rdM5 Calculators and Money	R: 5thE&C3; Solving a Money Problem E: 5thE&C3 Solving Problems about Change in Prices over Time
.5	3rdM5	E&C5	F&R1, 3; 3rdN2	5thE&C1 Estimating and Finding Exact Costs 5thE&C1 Practicing Estimating and Finding Exact Costs	R: 3rdE&C1 Rounding Numbers E: 5thE&C3 Solving Tic-Tac-Toe Addition Problems


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				F&R2 Analyzing a Line Plot 4 E&C1 Estimation to the Nearest Ten Cents	
.6	5thE&C1	3rdM5	4thM2	4thM9 Using Coins and Bills to make Change from \$10.00 4thM9 shopping for Groceries 3rdN5 Flaying Equivalent Fractions or Fraction Top-it 3rdM9 making Change	R: F&R1 Finding Differences between Pairs of Numbers on the Number Grid E: 5thE&C1, 3 Exploring Money Amounts
.7	N1; 5thS&P3	G8		G8 Tracing Areas of Handprints and Footprints G5 Making Pattern-Block Worktables N3 Forming Fractions on the Geoboard E&C4 Practicing with +, - Fact Triangles G8 Area	R: N3 Solving Equal-Parts Geoboard Problems E: 7thN6 Finding Fractional Parts
.8	5thE&C1	N2	5thE&C1	N2; 3N2 Representing 3-and 4-Digit Numbers with Base-10 Blocks N2 Reviewing the Role of 0 as a Placeholder M12 Comparing Place Value with Base-10 Blocks and Money M12; 4M8 Playing the Money Exchange Game 3rdE&C2 Reviewing Ballpark Estimation N2; 3N2 Place Value	R: N2 Building Base-10 Structures EP: N2 More Experience with Place Value ELL: N2 Using Base-10 Blocks for Place Value
.9	4thM7	3rdN2	M8; 3M8	PS1 Making a Place-Value Tool 3rdN2 Establishing a Routine for Place-Value Tools 3rdN2 Displaying Counts with Place-Value Tools 3rdN2 Displaying and Reading Numbers with Place-Value Tools N2; 3N2 Practicing Routines with Place-Value Tools N2; 3N2 Counting by 10s, 100s and 1000s	R: PS1; 3N2 Doing Digit Discovery EP: N2; 3N2 More Experience with Place Value

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.10	N2; 3rdN2	F&R1; N2	2nd,3rd & 4th N2	4thN2 Extending Place-Value Concepts to Ten-Thousands 3rdN2 Reviewing 0 as a Placeholder 4thN2 Reviewing Relationships among Place Values 3rd&4thN4 Solving 4- and 5-Digit Place-Value Problems 3rd&4th N4 4- and 5-Digit Place-Value Problems	R: N2 Exploring Place-Value Transitions E: 4thN2 Ordering 5-Digit Numbers
.11	N2	E&C4	N3	8thN8 Introducing the Use of Parentheses in Number Models 8thN8 Solving Parentheses Puzzles and Problems S&P4 Playing Soccer Spin 8thN8 Grouping with Parentheses	R: PS1, 4 Exploring the Order of Operations E: 8thN8 Recording Number Sentences with Parentheses


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Unit 11					
Lesson	MM&R	Math Mess		Lesson parts 1 & 2	Lesson part 3 (Readiness & Extra Practice)
.1	N2; 3rdN2	4thM9		4thM9 Solving Problems with 2- and 3-Digit Addends E&C5 Playing Hit the Target 4thM9 Buying Art Supplies	R: 3 E&C2 Using Ten Frames to Estimate Money Amounts E: 5 E&C3 Completing Magic Squares
.2	4thM6	4thM7	4thM6	3rdM9 Counting Up to the Next Dollar 4thM7 Counting Up to Larger Dollar Amounts 5thE&C3 Solving Comparison Problems F&R2 Analyzing Data 3rdM5 Comparing Costs	R: E&C5; F&R1 Finding Differences between Numbers on a Number Grid E: PS1; 4M94M6 Making Up and Solving Number Stories
.3	E&C5	3rdE&C2	E&C5	E&C5 Demonstrating the Trade-First Algorithm without Trades E&C5 Demonstrating the Trade-First Algorithm with Trades E&C5 Practicing the Trade-First Algorithm E&C5 Trade-First Subtractions	R: N5 Modeling Subtraction with Base-10 Blocks E: N5 Exploring Subtraction Strategies
.4	3rdE&C2	G1; N6	G1; N6	3rdE&C5 Reviewing Multiplication Ideas and Terms PS1; E&C6 making Up and Solving Number Stories about Multiples of Equal Groups N6 Playing Array Bingo 3rdE&C5; PS2, 3 Multiplication Stories	R: E&C6 Skip-Counting on a Number Line E: E&C6; F&R1 Solving Multiples Problems EP PS1; 3 E&C5 Connecting Equal Groups to Literature
.5	E&C6	E&C7	E&C7	3rdE&C6 Introducing Number Models for Division Stories PS1; E&C7 Making Up and solving Division Number Stories E&C7 Solving Division Number Stories S&P4 Playing Soccer Spin 3rdE&C6 division Number Stories	R: E&C7 Exploring Equal Shares EP; E&C7 Sharing Eggs Equally

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.6	N7	E&C6	3rdE&C5	<p>3rdE&C5 Discussing the Meaning of Multiplication Facts N7 Multiplying by 2, 5 and 10 3rdE&C5 Listing Multiplication Facts from 2s to 10s E&C6 Using Arrays to Find Products E&C4, 5; PS 2, 3 Playing Name That Number 3rdE&C5 Multiplication Facts</p>	<p>R: N7 Counting on the Calculator E: E&C6 Creating Arrays</p>
.7	E&C7	PS1, 2; E&C6, 7		<p>3rdE&C5 Introducing the Products Table 3rdE&C5 Discussing and Recording 1s and 0s Products 3rdE&C5 Recording Other Products in the Products Table 3rdE&C5 Cutting Out Fact Triangles for Multiplication and Division 3rdE&C5 Multiplication Facts</p>	<p>E: 6thF&R1 Investigation Square Numbers EP: F&R1; 3 E&C5 More Experience with Multiplication Facts Through 10s</p>
.8	3rdE&C5	PS1, 2 &3	5thS&P3	<p>PS1, 2, &3 Making Division Stories from Multiplication Stories 4thE&C2 Introducing Fact Families for Multiplication and Division 4thE&C2 Completing Fact Families for Fact Triangles 4thE&C2 Practicing with Fact Triangles 4thE&C2 Fact Triangles</p>	<p>E: 4thE&C2 Exploring Fact Triangles EP: thE&C2 Experience with Multiplication and Division Facts</p>
.9	5thE&C3	PS1, 4 E&C2	5thE&C3	<p>4thE&C5 Playing a Multiplication Version of Beat the Calculator 4thE&C2 Practicing Multiplication with Fact Triangles 4thE&C2 Fact Families</p>	<p>R: E&C6 Doubling to Multiply by 2 E: E&C6 Solving a Paper-Folding Problem EP 4thE&C2 Writing Fact Families</p>

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Unit 12					
Lesson	MM&R	Math Mess		Lesson parts 1 & 2	Lesson part 3 (Readiness & Extra Practice)
.1	3rdN2	3rdM8	3rdM8	3rdM8 Reviewing Calendar Facts 4thM6 Telling Time 3rdE&C5 Practicing Multiplication Facts Using Fact Triangles 3rdE&C5 Fact Triangles	R: 4thM6 Telling Time to the Nearest Five Minutes E: 3rdM8 Finding Leap Years EP: 3rdM8 Finding the Number of Days of Vacation
.2	3rdE&C5	M7		4thM6 Reviewing Clock Skills E&C5 Solving Multi-digit Addition and Subtraction Problems 4thM6 Many Names for Times	E: F&R1, 2 Finding Military Time EP: 4M6 Telling Time to Five Minutes
.3	3rdM8	3rdM8	3rdM8	3rdPS5 Discussing Ways People Communicate across Distances S&P1 Displaying Events in Sequential Order on a Timeline S&P1 Shoeing Dates for Inventions on a Timeline M7 matching Clocks to Digital Notation S&P1 Timelines	R: N1 Placing Numbers on a Number Line E: 6thM4 Calculating Elapsed Time Using a Timeline
.4	E&C6	F&R1	E&C6	4thN11 Reviewing Multiplication Shortcuts and Strategies 3rdE&C5; 4E&C2 Practicing Multiplication Facts with Fact Triangles 3rdE&C2;E&C5 Practicing Estimation and the Trade-First Algorithm E&C4; PS2, 3 Playing Name That Number 4th&C2 Fact Triangles	R: 3rdE&C5 Drawing Multiplication Arrays E: F&R2 Analyzing a Multiplication Strategy
.5	N3	4thN8	4thN8	4thE&C2 Using Fact Triangles for Division Facts 4E&C2 Solving Related	R: E&C7 Building Arrays with Equal Shares EP: F&R1; 4E&C2 Completing "What's

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				Multiplication/Division Facts Problems E&C4, 5 Playing Addition Card Draw 4thN8 X and Division Facts Practice	My Rule?" Tables
.6	N3	S&P2	S&P2	5thS&P3 Finding the median and Range of the Distances 4thE&C2 Practicing Division Facts with Fact Triangles S&P2 Typical Life Spans	R: N1 Counting on Calculators E: S&P1, 2 Comparing Distances Covered by Various Modes of Travel EP: S&P1, 2 Observing the Sleeping Hours of Animals
.7	4thE&C2	S&P1	3rd, 4th &5th S&P3	S&P1 Making a Line Plot, Frequency Table, and bar Graph of Height Changes E&C4, 5 Playing Addition Card Draw S&P2 Interpret a Bar Graph	E: Explaining Landmarks of a Data Set EP: 3rd, 4th, &5th S&P3 Collecting and Displaying Class Height Data