

Section	Outcomes	Modifications	Resources
1.1 Place Value through Hundred Thousands	<p>N.ME.04.01 Read and write numbers to 1,000,000; relate them to the quantities they represent; compare and order.</p> <p>N.ME.04.02 Compose and decompose numbers using place value to 1,000,000's, e.g., 25,068 is 2 ten thousands, 5 thousands, 0 hundreds, 6 tens, and 8 ones.</p> <p>N.ME.04.03 Understand the magnitude of numbers up to 1,000,000; recognize the place values of numbers and the relationship of each place value to the place to its right, e.g., 1,000 is 10 hundreds.</p>	Leveled work	Base ten blocks
1.2 Hands On: Model Millions	NCTM Standards Number and Operations Understand place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals.	Leveled work	10 by 10 grid paper
1.3 Place Value Through Millions	NCTM Standards Number and Operations Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals.	Leveled work	
1.4 Compare Whole Numbers	N.ME.04.01 Read and write numbers to 1,000,000; relate them to the quantities they represent; compare and order.	Leveled work	
1.5 Order Whole Numbers	NCTM Standards Number and Operations Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals.	Leveled work	Base-ten blocks
1.6 Problem Solving Workshop Strategy: Use Logical Reasoning	NCTM Standards Number and Operations Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals.	Leveled work	

Section	Outcomes	Modifications	Resources
2.1 Algebra: Relate Addition and Subtraction	NCTM Standards Number and Operations Recognize equivalent representations for the same number and generate them by decomposing and composing numbers	Leveled work	
2.2 Round Whole Numbers Through Millions	NCTM Standards Number and Operations Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals.	Leveled work	
2.3 Mental Math: Estimate Sums and Differences	N.FL.04.34 Estimate the answers to calculations involving addition, subtraction, or multiplication.	Leveled work	
2.4 Mental Math Strategies	N.FL.04.36 Make appropriate estimations and calculations fluently with whole numbers using mental math strategies.	Leveled work	
2.5 Problem Solving Workshop Skill: Estimate or Exact Answer	N.FL.04.35 Know when approximation is appropriate and use it to check the reasonableness of answers; be familiar with common place value errors in calculations.	Leveled work	
2.6 Add and Subtract 3 digit and 4 digit numbers	N.FL.04.08 Add and subtract whole numbers fluently. N.FL.04.35 Know when approximation is appropriate and use it to check the reasonableness of answers; be familiar with common place value errors in calculations.	Leveled work	
2.7 Choose a Method	N.FL.04.08 Add and subtract whole numbers fluently. N.FL.04.36 Make appropriate estimations and calculations fluently with whole numbers using mental math strategies.	Leveled work	Calculators

Section	Outcomes	Modifications	Resources
3.1 Addition Properties	NCTM Standards Algebra Identify such properties as commutativity, associativity, and distributivity and use them to compute whole numbers.	Leveled work	
3.2 Write and Evaluate Expressions	NCTM Standards Algebra Represent the idea of a variable as an unknown quantity using a letter or a symbol.	Leveled work	
3.3 Addition and Subtraction Equations	NCTM Standards Algebra Represent the idea of a variable as an unknown quantity using a letter or a symbol.	Leveled work	
3.4 Problem Solving Workshop Strategy: Work Backward	NCTM Standards Algebra Express mathematical relationships using equations.	Leveled work	
3.5 Patterns: Find a Rule	NCTM Standards Algebra Investigate how a change in one variable relates to a change in a second variable.	Leveled work	

Section	Outcomes	Modifications	Resources
4.1 Algebra: Relate Operations	NCTM Standards Number and Operations Understand various meanings of multiplication and division	Leveled work	
4.2 Algebra: Relation Multiplication and Division	NCTM Standards Number and Operations Understand the effects of multiplying and dividing whole numbers.	Leveled work	
4.3 Multiply and Divide Facts through 5	N.MR.04.13 Use the relationship between multiplication and division to simplify computations and check results.	Leveled work	
4.4 Multiply and Divide Facts through 10	NCTM Standards Number and Operations Understand the effects of multiplying and dividing whole numbers.	Leveled work	
4.5 Hands-On Multiplication Table Through 12	NCTM Standards Communications Communicate their mathematical thinking coherently and clearly to peers, teachers, and others.	Leveled work	Blank multiplication table
4.6 Patterns on the Multiplication Table	N.ME.04.05 List the first ten multiples of a given one digit whole number; determine if a whole number is a multiple of a given one-digit whole number.	Leveled work	Multiplication table
4.7 Problem Solving Workshop Skill: Choose the Operation	N.FL.04.14 Solve contextual problems involving whole number multiplication and division.	Leveled work	
4.8 Algebra: Find missing factors	N.FL.04.12 Find the value of the unknowns in equations such as $a \div 10 = 25$; $125 \div b = 25$	Leveled work	

Section	Outcomes	Modifications	Resources
5.1 Multiplication Properties	N.ME.04.09 Multiply two-digit numbers by 2, 3, 4, and 5, using the distributive property, e.g., $21 \times 3 = (1 + 20) \times 3 = (1 \times 3) + (20 \times 3) = 3 + 60 = 63$. N.FL.04.10 Multiply fluently any whole number by a one-digit number and a three-digit number by a two-digit number; for a two-digit by one-digit multiplication use distributive property to develop meaning for the algorithm. N.FL.04.36 Make appropriate estimations and calculations fluently with whole numbers using mental math strategies.	Leveled work	
5.2 Multiplication and Division Expressions	NCTM Standards Algebra Represent the idea of a variable as an unknown quantity using a letter or a symbol.	Leveled work	
5.3 Order of Operations	NCTM Standards Number and Operations Understand and use properties of operations, such as the distributivity of multiplication over addition.	Leveled work	Calculator
5.4 Multiplication and Division Equations	N.FL.04.12 Find the value of the unknowns in equations such as $a \div 10 = 25$; $125 \div b = 25$.	Leveled work	
5.5 Problem Solving Workshop Strategy: Predict and Test	NCTM Standards Problem Solving Apply and adapt a variety of appropriate strategies to solve problems.	Leveled work	
5.6 Explore Inequalities	NCTM Standards Algebra Express mathematical relationships using equations.	Leveled work	
5.7 Patterns: Find a Rule	NCTM Standards Algebra Investigate how a change in one variable relates to a change in a second variable.	Leveled work	

Section	Outcomes	Modifications	Resources
6.1 Telling Time	NCTM Standards Measurement Understand measurable attributes of objects and the units, systems, and processes of measurement.	Leveled work	Clock
6.2 Elapsed Time	NCTM Standards Measurement Select and apply appropriate standard units and tools to measure length, area, volume, weight, time, temperature, and the size of angles.	Leveled work	Stopwatches
6.3 Elapsed Time on a Calendar	NCTM Standards Measurement Select and apply appropriate standard units and tools to measure length, area, volume, weight, time, temperature, and the size of angles.	Leveled work	Calendar
6.4 Algebra: Change units of Time	M.TE.04.05 Carry out the following conversions from one unit of measure to a larger or smaller unit of measure: meters to centimeters, kilograms to grams, liters to milliliters, hours to minutes, minutes to seconds, years to months, weeks to days, feet to inches, ounces to pounds (using numbers that involve only simple calculations).	Leveled work	
6.5 Problem Solving Workshop Skill: Sequence Information	NCTM Standards Problem Solving Apply and adapt a variety of appropriate strategies to solve problems.	Leveled work	
6.6 Temperature	M.UN.04.03 Measure and compare integer temperatures in degrees.	Leveled work	Thermometer
6.7 Explore Negative Numbers	NCTM Standards Representation Represent and analyze patterns and functions, using words, tables, and graphs.	Leveled work	

Section	Outcomes	Modifications	Resources
7.1 Collect and Organize Data	NCTM Standards Data Analysis and Probability Represent data using tables and graphs such as line plots, bar graphs, and line graphs.	Leveled work	Graph paper
7.2 Venn Diagrams	NCTM Standards Data Analysis and Probability Represent data using tables and graphs such as line plots, bar graphs, and line graphs.	Leveled work	
7.3 Find Mean, Median and Mode	D.RE.04.02 Order a given set of data, find the median, and specify the range of values.	Leveled work	Connecting cubes
7.4 Line Plots	D.RE.04.02 Order a given set of data, find the median, and specify the range of values.	Leveled work	Graph paper
7.5 Choose a Reasonable Scale and Interval	D.RE.04.01 Construct tables and bar graphs from given Data	Leveled work	Graph paper
7.6 Problem Solving Workshop Skill: Make Generalizations	D.RE.04.03 Solve problems using data presented in tables and bar graphs, e.g., compare data represented in two bar graphs and read bar graphs showing two data sets.	Leveled work	

Section	Outcomes	Modifications	Resources
8.1 Bar Graphs	D.RE.04.02 Order a given set of data, find the median, and specify the range of values. D.RE.04.03 Solve problems using data presented in tables and bar graphs, e.g., compare data represented in two bar graphs and read bar graphs showing two data sets.	Leveled work	
8.2 Hands-On Make Bar and Double Bar Graphs	D.RE.04.01 Construct tables and bar graphs from given data. D.RE.04.03 Solve problems using data presented in tables and bar graphs, e.g., compare data represented in two bar graphs and read bar graphs showing two data sets.	Leveled work	Graph paper
8.3 Circle Graphs	NCTM Standards Data Analysis and Probability Represent data using tables and graphs such as line plots, bar graphs, and line graphs.	Leveled work	
8.4 Algebra: Use a Coordinate Grid	NCTM Standards Algebra Represent and analyze patterns and functions, using words, tables, and graphs.	Leveled work	
8.5 Line Graphs	NCTM Standards Data Analysis and Probability Represent data using tables and graphs such as line plots, bar graphs, and line graphs.	Leveled work	Graph paper
8.6 Hands On: Make Line Graphs	NCTM Standards Data Analysis and Probability Represent data using tables and graphs such as line plots, bar graphs, and line graphs.	Leveled work	Graph paper
8.7 Problem Solving Workshop Strategy: Make a Graph	NCTM Standards Problem Solving Apply and adapt a variety of appropriate strategies to solve problems.	Leveled work	Graph paper

8.8 Choose an appropriate graph	NCTM Standards Representation Create and use representations to organize, record, and communicate mathematical ideas.	Leveled work	
8.9 Algebra: Graph Relationships	M.TE.04.05 Carry out the following conversions from one unit of measure to a larger or smaller unit of measure: meters to centimeters, kilograms to grams, liters to milliliters, hours to minutes, minutes to seconds, years to months, weeks to days, feet to inches, ounces to pounds (using numbers that involve only simple calculations).	Leveled work	
8.10 Problem Solving Workshop Skill: Identify Relationships	NCTM Standards Algebra Model problem situations with objects and use representations such as graphs, tables, and equations to draw conclusions.	Leveled work	

Section	Outcomes	Modifications	Resources
9.1 Mental Math: Multiplication Patterns	N.FL.04.36 Make appropriate estimations and calculations fluently with whole numbers using mental math strategies.	Leveled work	
9.2 Mental Math: Estimate Products	N.MR.04.13 Use the relationship between multiplication and division to simplify computations and check results. N.FL.04.34 Estimate the answers to calculations involving addition, subtraction, or multiplication. N.FL.04.36 Make appropriate estimations and calculations fluently with whole numbers using mental math strategies.	Leveled work	
9.3 Hands On: Model 2-Digit by 1-Digit Multiplication	N.ME.04.09 Multiply two-digit numbers by 2, 3, 4, and 5, using the distributive property, e.g., $21 \times 3 = (1 + 20) \times 3 = (1 \times 3) + (20 \times 3) = 3 + 60 = 63$. N.FL.04.10 Multiply fluently any whole number by a one-digit number and a three-digit number by a two-digit number; for a two-digit by one-digit multiplication use distributive property to develop meaning for the algorithm.	Leveled work	Base-ten blocks

<p>9.4 Record 2-Digit by 1-Digit Multiplication</p>	<p>N.ME.04.09 Multiply two-digit numbers by 2, 3, 4, and 5, using the distributive property, e.g., $21 \times 3 = (1 + 20) \times 3 = (1 \times 3) + (20 \times 3) = 3 + 60 = 63$.</p> <p>N.FL.04.10 Multiply fluently any whole number by a one-digit number and a three-digit number by a two-digit number; for a two-digit by one-digit multiplication use distributive property to develop meaning for the algorithm.</p>	<p>Leveled work</p>	
<p>9.5 Multiply 3-Digit and 4-Digit Numbers and Money</p>	<p>N.FL.04.10 Multiply fluently any whole number by a one-digit number and a three-digit number by a two-digit number; for a two-digit by one-digit multiplication use distributive property to develop meaning for the algorithm.</p> <p>N.FL.04.33 Multiply and divide decimals up to two decimal places by a one-digit whole number where the result is a terminating decimal, e.g., $0.42 \div 3 = 0.14$, but not $5 \div 3 = 1.6$.</p> <p>N.FL.04.34 Estimate the answers to calculations involving addition, subtraction, or multiplication</p> <p>N.FL.04.35 Know when approximation is appropriate and use it to check the reasonableness of answers; be familiar with common place value errors in calculations.</p>	<p>Leveled work</p>	

<p>9.6 Multiply with Zeros</p>	<p>N.FL.04.10 Multiply fluently any whole number by a one-digit number and a three-digit number by a two-digit number; for a two-digit by one-digit multiplication use distributive property to develop meaning for the algorithm.</p> <p>N.FL.04.34 Estimate the answers to calculations involving addition, subtraction, or multiplication.</p> <p>N.FL.04.35 Know when approximation is appropriate and use it to check the reasonableness of answers; be familiar with common place value errors in calculations.</p>	<p>Leveled work</p>	
<p>9.7 Problem Solving Workshop Skill: Evaluate Reasonableness</p>	<p>N.FL.04.14 Solve contextual problems involving whole number multiplication and division.</p> <p>N.FL.04.34 Estimate the answers to calculations involving addition, subtraction, or multiplication.</p> <p>N.FL.04.35 Know when approximation is appropriate and use it to check the reasonableness of answers; be familiar with common place value errors in calculations.</p>	<p>Leveled work</p>	

Section	Outcomes	Modifications	Resources
10.1 Mental Math: Multiplication Patterns	N.FL.04.36 Make appropriate estimations and calculations fluently with whole numbers using mental math strategies.	Leveled work	
10.2 Multiply by Tens	N.FL.04.36 Make appropriate estimations and calculations fluently with whole numbers using mental math strategies.	Leveled work	
10.3 Mental Math: Estimate Products	N.MR.04.13 Use the relationship between multiplication and division to simplify computations and check results. N.FL.04.34 Estimate the answers to calculations involving addition, subtraction, or multiplication.	Leveled work	
10.4 Problem Solving Workshop Strategy: Solve a Simpler Problem	N.ME.04.09 Multiply two-digit numbers by 2, 3, 4, and 5, using the distributive property, e.g., $21 \times 3 = (1 + 20) \times 3 = (1 \times 3) + (20 \times 3) = 3 + 60 = 63$. N.FL.04.10 Multiply fluently any whole number by a one-digit number and a three-digit number by a two-digit number; for a two-digit by one-digit multiplication use distributive property to develop meaning for the algorithm. N.FL.04.14 Solve contextual problems involving whole number multiplication and division.	Leveled work	

<p>10.5 Model 2-Digit by 2-Digit Multiplication</p>	<p>NCTM Standards Representation Select, apply, and translate among mathematical representations to solve problems.</p>	<p>Leveled work</p>	<p>Grid paper Base-ten blocks</p>
<p>10.6 Record 2-Digit by 2-Digit Multiplication</p>	<p>N.ME.04.09 Multiply two-digit numbers by 2, 3, 4, and 5, using the distributive property, e.g., $21 \times 3 = (1 + 20) \times 3 = (1 \times 3) + (20 \times 3) = 3 + 60 = 63$</p> <p>N.FL.04.10 Multiply fluently any whole number by a one-digit number and a three-digit number by a two-digit number; for a two-digit by one-digit multiplication use distributive property to develop meaning for the algorithm.</p> <p>N.FL.04.34 Estimate the answers to calculations involving addition, subtraction, or multiplication.</p> <p>N.FL.04.35 Know when approximation is appropriate and use it to check the reasonableness of answers; be familiar with common place value errors in calculations.</p>	<p>Leveled work</p>	

<p>10.7 Multiply 2-Digit and 3-Digit Numbers and Money</p>	<p>N.ME.04.09 Multiply two-digit numbers by 2, 3, 4, and 5, using the distributive property, e.g., $21 \times 3 = (1 + 20) \times 3 = (1 \times 3) + (20 \times 3) = 3 + 60 = 63$.</p> <p>N.FL.04.10 Multiply fluently any whole number by a one-digit number and a three-digit number by a two-digit number; for a two-digit by one-digit multiplication use distributive property to develop meaning for the algorithm.</p> <p>N.FL.04.34 Estimate the answers to calculations involving addition, subtraction, or multiplication.</p> <p>N.FL.04.35 Know when approximation is appropriate and use it to check the reasonableness of answers; be familiar with common place value errors in calculations.</p>	<p>Leveled work</p>	
<p>10.8 Choose a Method</p>	<p>N.FL.04.10 Multiply fluently any whole number by a one-digit number and a three-digit number by a two-digit number; for a two-digit by one-digit multiplication use distributive property to develop meaning for the algorithm.</p> <p>N.FL.04.36 Make appropriate estimations and calculations fluently with whole numbers using mental math strategies.</p>	<p>Leveled work</p>	<p>Calculator</p>
<p>10.9 Problem Solving Workshop Skill: Multistep Problems</p>	<p>N.FL.04.14 Solve contextual problems involving whole number multiplication and division.</p>	<p>Leveled work</p>	

Section	Outcomes	Modifications	Resources
11.1 Divide with Remainders	N.FL.04.11 Divide numbers up to four digits by onedigit numbers and by 10.	Leveled work	Counters
11.2 Hands on: Model 2-Digit by 1-Digit Division	N.FL.04.11 Divide numbers up to four digits by one-digit numbers and by 10. N.MR.04.13 Use the relationship between multiplication and division to simplify computations and check results.	Leveled work	Base-ten blocks
11.3 Record 2-Digit by 1-Digit Division	N.FL.04.11 Divide numbers up to four digits by one-digit numbers and by 10. N.MR.04.13 Use the relationship between multiplication and division to simplify computations and check results.	Leveled work	Base-ten blocks
11.4 Problem Solving Workshop Strategy: Draw a Diagram	NCTM Standards Problem Solving Apply and adapt a variety of appropriate strategies to solve problems.	Leveled work	
11.5 Mental Math: Division Patterns	NCTM Standards Number and Operations Develop fluency with basic number combinations for multiplication and division and use these combinations to mentally compute related problems, such as 30 times 50.	Leveled work	
11.6 Mental Math: Estimate Quotients	N.MR.04.13 Use the relationship between multiplication and division to simplify computations and check results.	Leveled work	
11.7 Place the First Digit	N.FL.04.11 Divide numbers up to four digits by one-digit numbers and by 10.	Leveled work	

Section	Outcomes	Modifications	Resources
12.1 Problem Solving Workshop Skill: Interpret the Remainder	N.FL.04.14 Solve contextual problems involving whole number multiplication and division.	Leveled work	
12.2 Divide 3-Digit Numbers and Money	N.FL.04.11 Divide numbers up to four digits by one-digit numbers and by 10. N.MR.04.13 Use the relationship between multiplication and division to simplify computations and check results. N.FL.04.33 Multiply and divide decimals up to two decimal places by a one-digit whole number where the result is a terminating decimal, e.g., $0.42 \div 3 = 0.14$, but not $5 \div 3 = 1.6$.	Leveled work	
12.3 Zeros in Division	N.FL.04.11 Divide numbers up to four digits by one-digit numbers and by 10. N.MR.04.13 Use the relationship between multiplication and division to simplify computations and check results.	Leveled work	
12.4 Choose a Method	N.FL.04.11 Divide numbers up to four digits by one-digit numbers and by 10. N.MR.04.13 Use the relationship between multiplication and division to simplify computations and check results.	Leveled work	calculators

Section	Outcomes	Modifications	Resources
13.1 Estimate Quotients	<p>N.FL.04.11 Divide numbers up to four digits by one-digit numbers and by 10.</p> <p>N.MR.04.13 Use the relationship between multiplication and division to simplify computations and check results.</p>	Leveled work	
13.2 Hands On: Model Division by 2-Digit Divisors	NCTM Standards Representation Instructional programs from prekindergarten through grade 12 should enable all students to use representation to model and interpret physical, social, and mathematical phenomena.	Leveled work	Base-ten blocks
13.3 Record Division	NCTM Standards Number and Operations In grades 3-5 all students should develop fluency in adding, subtracting, multiplying, and dividing whole numbers.	Leveled work	
13.4 Adjusting Quotients	NCTM Standards Number and Operations In grades 3-5 all students should develop and use strategies to estimate the results of whole-number computations and to judge the reasonableness of such results.	Leveled work	
13.5 Problem Solving Workshop Skill: Too Much/Too Little Information	NCTM Standards Problem Solving Apply and adapt a variety of appropriate strategies to solve problems.	Leveled work	

Section	Outcomes	Modifications	Resources
14.1 Factors and Multiples	<p>N.ME.04.04 Find all factors of any whole number through 50, list factor pairs, and determine if a one-digit number is a factor of a given whole number.</p> <p>N.ME.04.05 List the first ten multiples of a given one-digit whole number; determine if a whole number is a multiple of a given one-digit whole number.</p> <p>N.MR.04.07 Use factors and multiples to compose and decompose whole numbers.</p>	Leveled work	Square inch tiles Square inch grid paper
14.2 Divisibility Rules	NCTM Standards Number and Operations Describe classes of numbers according to characteristics such as the nature of their factors.	Leveled work	
14.3 Prime and Composite Numbers	<p>N.MR.04.06 Know that some numbers including 2, 3, 5, 7, and 11 have exactly two factors (1 and the number itself) and are called prime numbers.</p>	Leveled work	Square inch tiles
14.4 Number Patterns	NCTM Standards Algebra Describe, extend, and make generalizations about geometric and numeric patterns.	Leveled work	
14.5 Problem Solving Workshop Strategy: Find a Pattern	NCTM Standards Algebra Describe, extend, and make generalizations about geometric and numeric patterns.	Leveled work	

Section	Outcomes	Modifications	Resources
15.1 Read and Write Fractions	<p>N.ME.04.20 Understand fractions as parts of a set of objects.</p> <p>N.MR.04.22 Locate fractions with denominators of 12 or less on the number line; include mixed numbers.</p>	Leveled work	
15.2 Model Equivalent Fractions	<p>N.MR.04.21 Explain why equivalent fractions are equal, using models such as fraction strips, or the number line, for fractions with denominators of 12 or less, or equal to 100.</p> <p>N.MR.04.22 Locate fractions with denominators of 12 or less on the number line; include mixed numbers.</p> <p>N.MR.04.23 Understand the relationships among halves, fourths and eighths and among thirds, sixths and twelfths.</p>	Leveled work	Fraction bars Number lines
15.3 Compare and Order Fractions	<p>N.MR.04.22 Locate fractions with denominators of 12 or less on the number line; include mixed numbers.</p> <p>N.MR.04.26 Compare and order up to three fractions with denominators 2, 4, and 8, and 3, 6, and 12, including improper fractions and mixed numbers.</p>	Leveled work	Fraction bars

<p>15.4 Read and Write Mixed Numbers</p>	<p>N.MR.04.22 Locate fractions with denominators of 12 or less on the number line; include mixed numbers.</p> <p>N.MR.04.24 Know that fractions of the form where m/n where m is greater than n, are greater than 1 and are called improper fractions; locate improper fractions on the number line.</p> <p>N.MR.04.25 Write improper fractions as mixed numbers, and understand that a mixed number represents the number of "wholes" and the part of a whole remaining, e.g., $5/4 = 1 + 1/4 = 1\frac{1}{4}$.</p>	<p>Leveled work</p>	<p>Fraction bars</p>
<p>15.5 Compare and Order Mixed Numbers</p>	<p>N.MR.04.22 Locate fractions with denominators of 12 or less on the number line; include mixed numbers.</p> <p>N.MR.04.26 Compare and order up to three fractions with denominators 2, 4, and 8, and 3, 6, and 12, including improper fractions and mixed numbers.</p>	<p>Leveled work</p>	<p>Fraction bars</p>
<p>15.6 Problem Solving Workshop Skill: Sequence Information</p>	<p>N.MR.04.26 Compare and order up to three fractions with denominators 2, 4, and 8, and 3, 6, and 12, including improper fractions and mixed numbers.</p>	<p>Leveled work</p>	

Section	Outcomes	Modifications	Resources
16.1 Hands On: Model Addition	N.MR.04.27 Add and subtract fractions less than 1 with denominators 12 and/or 100, in cases where the denominators are equal or when one denominator is a multiple of the other, e.g., $1/12 + 5/12 = 6/12$; $1/6 + 5/12 = 7/12$; $3/10 - 23/100 = 7/100$.	Leveled work	Pattern blocks
16.2 Hands On: Model Subtraction	N.MR.04.27 Add and subtract fractions less than 1 with denominators 12 and/or 100, in cases where the denominators are equal or when one denominator is a multiple of the other, e.g., $1/12 + 5/12 = 6/12$; $1/6 + 5/12 = 7/12$; $3/10 - 23/100 = 7/100$.	Leveled work	Pattern blocks
16.3 Record Addition and Subtraction	N.MR.04.27 Add and subtract fractions less than 1 with denominators 12 and/or 100, in cases where the denominators are equal or when one denominator is a multiple of the other, e.g., $1/12 + 5/12 = 6/12$; $1/6 + 5/12 = 7/12$; $3/10 - 23/100 = 7/100$.	Leveled work	
16.4 Problem Solving Workshop Strategy: Write an Equation	N.FL.04.28 Solve contextual problems involving sums and differences for fractions where one denominator is a multiple of the other (denominators 2 through 12, and 100).	Leveled work	
16.5 Add and Subtract Mixed Numbers	NCTM Standards Number and Operations Develop understanding of fractions as parts of unit wholes, as parts of a collection, as locations on number lines, and as divisions of whole numbers.	Leveled work	
16.6 Hands On: Model Addition and Subtraction of Unlike Fractions	N.MR.04.27 Add and subtract fractions less than 1 with denominators 12 and/or 100, in cases where the denominators are equal or when one denominator is a multiple of the other, e.g., $1/12 + 5/12 = 6/12$; $1/6 + 5/12 = 7/12$; $3/10 - 23/100 = 7/100$.	Leveled work	Pattern blocks Fraction bars

Section	Outcomes	Modifications	Resources
17.1 Relate Fractions and Decimals	<p>N.ME.04.15 Read and interpret decimals up to two decimal places; relate to money and place value decomposition.</p> <p>N.ME.04.16 Know that terminating decimals represents fractions whose denominators are 10, 10 x 10, 10 x 10 x 10, etc., e.g., powers of 10.</p> <p>N.ME.04.17 Locate tenths and hundredths on a number line.</p> <p>N.ME.04.18 Read, write, interpret, and compare decimals up to two decimal places.</p> <p>N.MR.04.19 Write tenths and hundredths in decimal and fraction forms, and know the decimal equivalents for halves and fourths.</p>	Leveled work	Decimal models
17.2 Decimals to Thousandths	<p>N.ME.04.16 Know that terminating decimals represents fractions whose denominators are 10, 10 x 10, 10 x 10 x 10, etc., e.g., powers of 10.</p> <p>N.ME.04.18 Read, write, interpret, and compare decimals up to two decimal places.</p> <p>N.MR.04.19 Write tenths and hundredths in decimal and fraction forms, and know the decimal equivalents for halves and fourths.</p>	Leveled work	

<p>17.3 Hands On: Equivalent Decimals</p>	<p>N.ME.04.15 Read and interpret decimals up to two decimal places; relate to money and place value decomposition.</p> <p>N.ME.04.16 Know that terminating decimals represents fractions whose denominators are 10, 10 x 10, 10 x 10 x 10, etc., e.g., powers of 10.</p> <p>N.ME.04.17 Locate tenths and hundredths on a number line.</p> <p>N.MR.04.19 Write tenths and hundredths in decimal and fraction forms, and know the decimal equivalents for halves and fourths.</p>	<p>Leveled work</p>	<p>Tenths and hundredths models</p>
<p>17.4 Relate Mixed Numbers and Decimals</p>	<p>N.ME.04.17 Locate tenths and hundredths on a number Line</p> <p>N.ME.04.18 Read, write, interpret, and compare decimals up to two decimal places.</p> <p>N.ME.04.18 Read, write, interpret, and compare decimals up to two decimal places.</p>	<p>Leveled work</p>	
<p>17.5 Compare and Order Decimals</p>	<p>N.ME.04.18 Read, write, interpret, and compare decimals up to two decimal places.</p>	<p>Leveled work</p>	<p>Decimal models</p>
<p>17.6 Problem Solving Workshop Skill: Draw Conclusions</p>	<p>NCTM Standards Problem Solving Apply and adapt a variety of appropriate strategies to solve problems.</p>	<p>Leveled work</p>	

Section	Outcomes	Modifications	Resources
18.1 Round Decimals	NCTM Standards Number and Operations Develop and use strategies to estimate computations involving fractions and decimals in situations relevant to students' experiences.	Leveled work	
18.2 Estimate Decimal Sums and Differences	. NCTM Standards Number and Operations Develop and use strategies to estimate computations involving fractions and decimals in situations relevant to students' experiences.	Leveled work	
18.3 Hands On: Model Addition	N.FL.04.32 Add and subtract decimals through hundredths.	Leveled work	Decimal models
18.4 Hands On: Model Subtraction	N.FL.04.32 Add and subtract decimals through hundredths.	Leveled work	Decimal models
18.5 Record Addition and Subtraction	N.FL.04.32 Add and subtract decimals through hundredths.	Leveled work	
18.6 Make Change	NCTM Standards Connections Recognize and apply mathematics in contexts outside of mathematics.		
18.7 Problem Solving Workshop Strategy: Compare Strategies	D.RE.04.01 Construct tables and bar graphs from given data.	Leveled work	

Section	Outcomes	Modifications	Resources
19.1 Points, Lines, and Rays	NCTM Standards Geometry Identify, compare, and analyze attributes of two- and three-dimensional shapes and develop vocabulary to describe the attributes.	Leveled work	
19.2 Measure and Classify Angles	M.TE.04.10 Identify right angles and compare angles to right angles.	Leveled work	Protractor
19.3 Line Relationships	G.GS.04.01 Identify and draw perpendicular, parallel, and intersecting lines using a ruler and a tool or object with a square (90°) corner.	Leveled work	Straightedge
19.4 Polygons	G.GS.04.02 Identify basic geometric shapes including isosceles, equilateral and right triangles, and use their properties to solve problems.	Leveled work	Dot paper
19.5 Classify Triangles	G.GS.04.02 Identify basic geometric shapes including isosceles, equilateral and right triangles, and use their properties to solve problems.	Leveled work	
19.6 Classify Quadrilaterals	G.GS.04.02 Identify basic geometric shapes including isosceles, equilateral and right triangles, and use their properties to solve problems.	Leveled work	Geoboard/rubber bands Dot paper
19.7 Circles	G.GS.04.02 Identify basic geometric shapes including isosceles, equilateral and right triangles, and use their properties to solve problems.	Leveled work	Compass ruler
19.8 Problem Solving Workshop Strategy: Compare Strategies	NCTM Standards Problem Solving Monitor and reflect on the process of mathematical problem solving.	Leveled work	

Section	Outcomes	Modifications	Resources
20.1 Congruent and Similar Figures	NCTM Standards Geometry Explore congruence and similarity.	Leveled work	Dot paper Scissors Congruent paper squares
20.2 Turns and Symmetry	G.TR.04.04 Recognize plane figures that have line symmetry.	Leveled work	Strips of paper/Paper fasteners Pattern blocks Tracing paper
20.3 Transformations	G.TR.04.05 Recognize rigid motion transformations (flips, slides, turns) of a two-dimensional object.	Leveled work	Pattern blocks
20.4 Problem Solving Workshop Strategy: Act it Out	NCTM Standards Representation Use representations to model and interpret physical, social, and mathematical phenomena.	Leveled work	Tagboard
20.5 Hands On: Tessellations	NCTM Standards Geometry Predict and describe the results of sliding, flipping, and turning two-dimensional shapes.	Leveled work	Construction paper Pattern blocks Ruler /Scissors
20.6 Geometric Patterns	NCTM Standards Algebra Describe, extend, and make generalizations about geometric and numeric patterns.	Leveled work	1-inch squares of paper

Section	Outcomes	Modifications	Resources
21.1 Faces, Edges, and Vertices	G.SR.04.03 Identify and count the faces, edges, and vertices of basic three-dimensional geometric solids including cubes, rectangular prisms, and pyramids; describe the shape of their faces.	Leveled work	Straws Modeling clay
21.2 Draw Figures	NCTM Standards Geometry Identify and draw a two-dimensional representation of a three-dimensional object.	Leveled work	Square dot paper
21.3 Patterns for Solid Figures	NCTM Standards Geometry Identify and build a three-dimensional object from two-dimensional representations of that object.	Leveled work	Empty container
21.4 Different Views of Solid Figures	NCTM Standards Geometry Identify and draw a two-dimensional representation of a three-dimensional object.	Leveled work	Solid wooden cylinder
21.5 Problem Solving Workshop Strategy: Make a Model	NCTM Standards Representation Select, apply, and translate among mathematical representations to solve problems.	Leveled work	
21.6 Combine and Divide Figures	G.TR.04.04 Recognize plane figures that have line symmetry	Leveled work	Pattern blocks Tracing paper Wooden solid figures Modeling clay

Section	Outcomes	Modifications	Resources
22.1 Measure Fractional Parts	<p>M.UN.04.01 Measure using common tools and select appropriate units of measure.</p> <p>M.PS.04.02 Give answers to a reasonable degree of precision in the context of a given problem.</p>	Leveled work	
22.2 Algebra: Change Customary Linear Units	<p>M.TE.04.05 Carry out the following conversions from one unit of measure to a larger or smaller unit of measure: meters to centimeters, kilograms to grams, liters to milliliters, hours to minutes, minutes to seconds, years to months, weeks to days, feet to inches, ounces to pounds (using numbers that involve only simple calculations).</p>	Leveled work	
22.3 Weight	<p>M.UN.04.01 Measure using common tools and select appropriate units of measure.</p> <p>M.PS.04.02 Give answers to a reasonable degree of precision in the context of a given problem.</p> <p>M.TE.04.05 Carry out the following conversions from one unit of measure to a larger or smaller unit of measure: meters to centimeters, kilograms to grams, liters to milliliters, hours to minutes, minutes to seconds, years to months, weeks to days, feet to inches, ounces to pounds (using numbers that involve only simple calculations).</p>	Leveled work	Spring scale Calculator

<p>22.4 Customary Capacity</p>	<p>M.UN.04.01 Measure using common tools and select appropriate units of measure.</p> <p>M.PS.04.02 Give answers to a reasonable degree of precision in the context of a given problem.</p> <p>M.TE.04.05 Carry out the following conversions from one unit of measure to a larger or smaller unit of measure: meters to centimeters, kilograms to grams, liters to milliliters, hours to minutes, minutes to seconds, years to months, weeks to days, feet to inches, ounces to pounds (using numbers that involve only simple calculations).</p>	<p>Leveled work</p>	<p>1 cup, 1 pint, 1 quart, and 1 gallon containers; water</p>
<p>22.5 Problem Solving Workshop Strategy: Compare Strategies</p>	<p>M.TE.04.05 Carry out the following conversions from one unit of measure to a larger or smaller unit of measure: meters to centimeters, kilograms to grams, liters to milliliters, hours to minutes, minutes to seconds, years to months, weeks to days, feet to inches, ounces to pounds (using numbers that involve only simple calculations).</p>	<p>Leveled work</p>	
<p>22.6 Metric Length</p>	<p>M.UN.04.01 Measure using common tools and select appropriate units of measure.</p> <p>M.PS.04.02 Give answers to a reasonable degree of precision in the context of a given problem</p>	<p>Leveled work</p>	
<p>22.7 Algebra: Change Metric Linear Units</p>	<p>M.TE.04.05 Carry out the following conversions from one unit of measure to a larger or smaller unit of measure: meters to centimeters, kilograms to grams, liters to milliliters, hours to minutes, minutes to seconds, years to months, weeks to days, feet to inches, ounces to pounds (using numbers that involve only simple calculations).</p>	<p>Leveled work</p>	<p>Calculator</p>

22.8 Mass	<p>M.UN.04.01 Measure using common tools and select appropriate units of measure.</p> <p>M.PS.04.02 Give answers to a reasonable degree of precision in the context of a given problem.</p> <p>M.TE.04.05 Carry out the following conversions from one unit of measure to a larger or smaller unit of measure: meters to centimeters, kilograms to grams, liters to milliliters, hours to minutes, minutes to seconds, years to months, weeks to days, feet to inches, ounces to pounds (using numbers that involve only simple calculations).</p>	Leveled work	Balance, gram, kilogram masses
22.9 Metric Capacity	<p>M.UN.04.01 Measure using common tools and select appropriate units of measure.</p> <p>M.PS.04.02 Give answers to a reasonable degree of precision in the context of a given problem.</p> <p>M.TE.04.05 Carry out the following conversions from one unit of measure to a larger or smaller unit of measure: meters to centimeters, kilograms to grams, liters to milliliters, hours to minutes, minutes to seconds, years to months, weeks to days, feet to inches, ounces to pounds (using numbers that involve only simple calculations).</p>	Leveled work	1 liter container, metric measuring cup, large and small containers
22.10 Problem Solving Workshop Strategy: Make a Table	NCTM Standards Problem Solving Apply and adapt a variety of appropriate strategies to solve problems.	Leveled work	

Section	Outcomes	Modifications	Resources
23.1 Hands On: Estimate and Measure Perimeter	NCTM Standards Measurement Develop strategies for estimating the perimeters, areas, and volumes of irregular shapes.	Leveled work	
23.2 Find Perimeter	M.TE.04.06 Know and understand the formulas for perimeter and area of a square and a rectangle; calculate the perimeters and areas of these shapes and combinations of these shapes using the formulas.	Leveled work	
23.3 Area of Plane Figures	NCTM Standards Measurement Understand such attributes as length, area, weight, volume, and size of angle and select the appropriate type of unit for measuring each attribute.	Leveled work	
23.4 Algebra: Find Area	M.TE.04.06 Know and understand the formulas for perimeter and area of a square and a rectangle; calculate the perimeters and areas of these shapes and combinations of these shapes using the formulas.	Leveled work	
23.5 Problem Solving Workshop Skill: Use a Formula	M.PS.04.09 Solve contextual problems about perimeter and area of squares and rectangles in compound shapes.	Leveled work	
23.6 Relate Perimeter and Area	NCTM Standards Measurement Understand such attributes as length, area, weight, volume, and size of angle and select the appropriate type of unit for measuring each attribute.	Leveled work	Square tiles Grid paper
23.7 Estimate and Find the Volume of Prisms	NCTM Standards Measurement Develop strategies to determine the surface area and volume of rectangular solids.	Leveled work	Prism net

Section	Outcomes	Modifications	Resources
24.1 Hands On: List all Possibilities	NCTM Standards Data Analysis and Probability Collect data using observations, surveys, and experiments	Leveled work	4-part spinner
24.2 Problem Solving Workshop Strategy: Make an Organized List	NCTM Standards Data Analysis and Probability Collect data using observations, surveys, and experiments	Leveled work	
24.3 Predict Outcomes of Experiments	NCTM Standards Data Analysis and Probability Propose and justify conclusions and predictions that are based on data, and design studies to further investigate the conclusions or predictions.	Leveled work	Color tiles
24.4 Probability as a Fraction	NCTM Standards Data Analysis and Probability Propose and justify conclusions and predictions that are based on data, and design studies to further investigate the conclusions or predictions.	Leveled work	
24.5 Hands On: Experimental Probability	NCTM Standards Data Analysis and Probability Propose and justify conclusions and predictions that are based on data, and design studies to further investigate the conclusions or predictions.	Leveled work	
24.6 Combinations and Arrangements	NCTM Representation Use representations to model and interpret physical, social, and mathematical phenomena.	Leveled work	