

Section	Outcomes	Modifications	Resources
1-1 Numbers and Patters	N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently.	Leveled work Using students to find patterns Pattern tiles	Pattern manipulatives
1-2 Exponents	N.ME.06.16 Understand and use integer exponents, excluding powers of negative bases; express numbers in scientific notation. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work	Possible scientific calculator
1-3 Metric Measurements	M.UN.06.01 Convert between basic units of measurement within a single measurement system. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work Technology Lab	Graphing/scientific calculators
1-4 Applying exponents	N.ME.06.16 Understand and use integer exponents, excluding powers of negative bases; express numbers in scientific notation.	Leveled work Technology Lab	Graphing/scientific calculators
1-5 Order of Operations	N.ME.06.16 Understand and use integer exponents, excluding powers of negative bases; express numbers in scientific notation. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.		

1-6 Properties	N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently. A.PA.07.11 Understand and use basic properties of real numbers: additive and multiplicative identities, additive and multiplicative inverses, commutative, associative, and the distributive property of multiplication over addition.	Leveled work Compare new vocabulary to know definitions (ex: associative- associate with friends, group together)	
1-7 Variables and Algebraic Expressions	A.FO.06.03 Use letters, with units, to represent quantities in a variety of contexts. A.FO.06.04 Distinguish between an algebraic expression and an equation. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work	
1-8 Translate Words in Math	A.FO.06.03 Use letters, with units, to represent quantities in a variety of contexts. A.FO.06.05 Use standard conventions for writing algebraic expressions A.FO.06.06 Represent information given in words using algebraic expressions and equations.	Leveled work Replace $<$, $>$, \leq , \geq with correct verbs	
1-9 Simplifying Algebraic Expressions	A.FO.06.07 Simplify expressions of the first degree by combining like terms, and evaluate using specific values. A.FO.07.12 Add, subtract, and multiply simple algebraic expressions of the first degree.	Leveled work Simplify expressions with algebra tiles	Algebra tiles
1-10 Equations and Their Solutions	A.FO.06.04 Distinguish between an algebraic expression and an equation; A.FO.06.06 Represent information given in words using algebraic expressions and equations. N.FL.07.08 Add, subtract, multiply and divide	Leveled work	

<p>1-11 Addition and Subtraction Equations</p>	<p>positive and negative rational numbers fluently.</p> <p>A.FO.06.06 Represent information given in words using algebraic expressions and equations; A.FO.06.11 Relate simple linear equations with integer coefficients; A.FO.06.12 Understand that adding or subtracting the same number to both sides of an equation creates a new equation that has the same solution.</p> <p>A.PA.07.11 Understand and use basic properties of real numbers: additive and multiplicative identities, additive and multiplicative inverses, commutative, associative, and the distributive property of multiplication over addition.</p>	<p>Leveled work Hands on Algebra or Model Solving Equations lab</p>	<p>Algebra pawns or algebra tiles</p>
<p>1-12 Multiplication and Division Equations</p>	<p>A.FO.06.06 Represent information given in words using algebraic expressions and equations.</p> <p>A.FO.06.11 Relate simple linear equations with integer coefficients.</p> <p>A.FO.06.13 Understand that multiplying or dividing both sides of an equation by the same non-zero number creates a new equation that has the same solutions.</p> <p>A.PA.07.11 Understand and use basic properties of real numbers: additive and multiplicative identities, additive and multiplicative inverses, commutative, associative, and the distributive property of multiplication over addition.</p>	<p>Leveled work Hands on Algebra</p>	<p>Algebra pawns or algebra tiles</p>

Section	Outcomes	Modifications	Resources
2-1 Integers	<p>N.ME.06.05 Order rational numbers and place them on the number line.</p> <p>N.ME.06.17 Locate negative rational numbers on the number line; know that numbers and their negatives add to 0, and are on opposite sides and at equal distance from 0 on a number line.</p> <p>N.ME.06.19 Understand that 0 is an integer that is neither negative nor positive.</p> <p>N.ME.06.20 Know that the absolute value of a number is the value of the number ignoring the sign; or is the distance of the number from 0.</p>	Leveled work	Number lines
2-2 Adding Integers	<p>N.FL.06.09 Add and multiply integers between -10 and 10; subtract and divide integers using the related facts. Use the number line and chip models for addition and subtraction.</p> <p>N.FL.07.07 Solve problems involving operations with integers.</p> <p>N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.</p>	Leveled work Model Integer Addition Lab	Number lines Integer chips
2-3 Subtracting Integers	<p>N.FL.06.09 Add and multiply integers between -10 and 10; subtract and divide integers using the related facts. Use the number line and chip models for addition and subtraction.</p> <p>N.MR.06.08 Understand integer subtraction as the inverse of integer addition.</p> <p>Understand integer division as the inverse of</p>	Leveled work Model Integer Subtraction Lab	Number lines Integer chips

<p>2-4 Multiplying and Dividing Integers</p>	<p>integer multiplication.</p> <p>N.FL.06.09 Add and multiply integers between -10 and 10; subtract and divide integers using the related facts. Use the number line and chip models for addition and subtraction.</p> <p>N.MR.06.08 Understand integer subtraction as the inverse of integer addition. Understand integer division as the inverse of integer multiplication.</p>	<p>Leveled work Model Integer Multiplication and Division Lab</p>	<p>Integer Chips</p>
<p>2-5 Solving Equations Containing Integers</p>	<p>A.FO.06.11 Relate simple linear equations with integer coefficients.</p> <p>N.FL.07.07 Solve problems involving operations with integers.</p>	<p>Leveled work Hands on Algebra Break down steps into color representations</p>	<p>Algebra pawns Colored pencils</p>
<p>2-6 Prime Factorization</p>	<p>N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently.</p> <p>N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.</p>	<p>Leveled work</p>	
<p>2-7 Greatest Common Factor</p>	<p>N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently.</p> <p>N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.</p>	<p>Leveled work GCF Integer chip towers</p>	<p>Integer chips</p>
<p>2-8 Least Common Multiple</p>	<p>N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently.</p> <p>N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.</p>	<p>Leveled work</p>	
<p>2-9 Equivalent Fractions and</p>	<p>N.ME.06.07 Understand that a fraction or a negative fraction is a quotient of two integers.</p>	<p>Leveled work Equal proportion marbles, etc</p>	<p>Marbles or other such material</p>

Mixed Numbers	N.FL.07.05 Solve proportion problems using such methods as unit rate, scaling, finding equivalent fractions, and solving the proportion equation $a/b = c/d$; know how to see patterns about proportional situations in tables.	(2:4 red to blue, 4:8)	
2-10 Equivalent Fractions and Decimals	N.ME.06.06 Represent rational numbers as fractions or terminating decimals when possible, and translate between these representations. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work Hundredths grids Sports comparison	Hundredths grids Baseball sports info, etc
2-11 Comparing and Ordering Rational Numbers	N.ME.06.05 Order rational numbers and place them on the number line. N.ME.06.17 Locate negative rational numbers on the number line; know that numbers and their negatives add to 0, and are on opposite sides and at equal distance from 0 on a number line. N.ME.06.18 Understand that rational numbers are quotients of integers. N.MR.07.02 Solve problems involving derived quantities such as density, velocity, and weighted averages.	Leveled work Number lines	Number lines

Section	Outcomes	Modifications	Resources
3-1 Estimate with Decimals	N.FL.06.14 For applied situations, estimate the answers to calculations involving operations with rational numbers. N.FL.07.09 Estimate results of computations with rational numbers.	Leveled work	
3-2 Adding and Subtracting Decimals	N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently. N.FL.06.15 Solve applied problems that use the four operations with appropriate decimal numbers. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently. N.FL.07.09 Estimate results of computations with rational numbers.	Leveled work Grid paper calculations	Grid paper
3-3 Multiplying Decimals	N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently. N.FL.06.15 Solve applied problems that use the four operations with appropriate decimal numbers. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently. N.FL.07.09 Estimate results of computations with rational numbers.	Leveled work Grid paper calculations	Grid paper
3-4 Divide Decimals by Integers	N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently. N.FL.06.15 Solve applied problems that use the four operations with appropriate decimal numbers. N.FL.07.08 Add, subtract, multiply and divide	Leveled work Grid paper calculations	Grid paper

<p>3-5 Dividing Decimals and Integers by Decimals</p>	<p>positive and negative rational numbers fluently. N.FL.07.09 Estimate results of computations with rational numbers.</p> <p>N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently.</p> <p>N.FL.06.15 Solve applied problems that use the four operations with appropriate decimal numbers.</p> <p>N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently. N.FL.07.09 Estimate results of computations with rational numbers.</p>	<p>Leveled work Grid paper calculations</p>	<p>Grid paper</p>
<p>3-6 Solving Equations Containing Decimals</p>	<p>A.FO.06.11 Relate simple linear equations with integer coefficients.</p> <p>N.FL.06.15 Solve applied problems that use the four operations with appropriate decimal numbers.</p> <p>A.PA.07.11 Understand and use basic properties of real numbers: additive and multiplicative identities, additive and multiplicative inverses, commutative, associative, and the distributive property of multiplication over addition.</p> <p>N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.</p>	<p>Leveled work</p>	
<p>3-7 Estimate with Fractions</p>	<p>N.FL.06.14 For applied situations, estimate the answers to calculations involving operations with rational numbers.</p> <p>N.FL.07.09 Estimate results of computations with rational numbers.</p>	<p>Leveled work</p>	
<p>3-8 Adding and Subtracting</p>	<p>N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently.</p>	<p>Leveled work Measuring cup addition ($\frac{1}{2} +$</p>	<p>Measuring cups</p>

Fractions	N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	$\frac{1}{2} = 1$)	
3-9 Adding and Subtracting Mixed Numbers	N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work	
3-10 Multiplying Fractions and Mixed Numbers	N.FL.06.04 Multiply and divide any two fractions, including mixed numbers, fluently. N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work Folded paper fraction multiplication	Paper and colored pencils
3-11 Dividing Fractions and Mixed Numbers	N.FL.06.02 Given an applied situation involving dividing fractions; write a mathematical statement to represent the situation. N.FL.06.04 Multiply and divide any two fractions, including mixed numbers, fluently. N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently. N.MR.06.01 Understand division of fractions as the inverse of multiplication.	Leveled work	
3-12 Solving Equations Containing Fractions	A.FO.06.11 Relate simple linear equations with integer coefficients. N.MR.06.03 Solve for the unknown in equations. A.PA.07.11 Understand and use basic properties of real numbers: additive and multiplicative identities, additive and multiplicative inverses, commutative,	Leveled work	

	associative, and the distributive property of multiplication over addition. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.		
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Section	Outcomes	Modifications	Resources
4-1 The Coordinate Plane	A.RP.06.02 Plot ordered pairs of integers and use ordered pairs of integers to identify points in all four quadrants of the coordinate plane.	Leveled work Battleship – the game	Game boards
4-2 Tables and Graphs	<p>A.RP.06.08 Understand that relationships between quantities can be suggested by graphs and tables.</p> <p>A.RP.06.10 Represent simple relationships between quantities using verbal descriptions, formulas or equations, tables, and graphs.</p> <p>A.PA.07.01 Recognize when information given in a table, graph, or formula suggests a directly proportional or linear relationship.</p> <p>A.PA.07.05 Recognize and use directly proportional relationships of the form $y = mx$, and distinguish from linear relationships of the form $y = mx + b$, b non-zero; understand that in a directly proportional relationship between two quantities one quantity is a constant multiple of the other quantity.</p> <p>A.RP.07.02 Represent directly proportional and linear relationships using verbal descriptions, tables, graphs, and formulas, and translate among these representations.</p>	Leveled work Coordinate Desks (who's sitting in (2,3)?)	Desks arranged in rows and columns
4-3 Interpreting Graphs	<p>A.RP.06.10 Represent simple relationships between quantities using verbal descriptions, formulas or equations, tables, and graphs.</p> <p>A.PA.07.01 Recognize when information given in a table, graph, or formula suggests a directly proportional or linear relationship.</p> <p>A.PA.07.05 Recognize and use directly</p>	Leveled work Graphing Calculator Distance Graphs	Graphing calculator (TI-84+ Silver Edition) TI distance marker

<p>4-4 Functions, Tables, and Graphs</p>	<p>proportional relationships of the form $y = mx$, and distinguish from linear relationships of the form $y = mx + b$, b non-zero; understand that in a directly proportional relationship between two quantities one quantity is a constant multiple of the other quantity. A.RP.07.02 Represent directly proportional and linear relationships using verbal descriptions, tables, graphs, and formulas, and translate among these representations.</p> <p>A.PA.06.09 Solve problems involving linear functions whose input values are integers; write the equation; graph the resulting ordered pairs of integers. A.RP.06.08 Understand that relationships between quantities can be suggested by graphs and tables. A.RP.06.10 Represent simple relationships between quantities using verbal descriptions, formulas or equations, tables, and graphs. A.PA.07.01 Recognize when information given in a table, graph, or formula suggests a directly proportional or linear relationship. A.PA.07.04 For directly proportional or linear situations, solve applied problems using graphs and equations. A.PA.07.05 Recognize and use directly proportional relationships of the form $y = mx$, and distinguish from linear relationships of the form $y = mx + b$, b non-zero; understand that in a directly proportional relationship between two quantities one quantity is a constant multiple of the other quantity. A.RP.07.02 Represent directly proportional and linear relationships using verbal descriptions, tables, graphs, and formulas,</p>	<p>Leveled work</p>	
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<p>4-5 Find a Pattern in Sequences</p>	<p>and translate among these representations.</p> <p>A.RP.06.10 Represent simple relationships between quantities using verbal descriptions, formulas or equations, tables, and graphs.</p> <p>A.RP.07.02 Represent directly proportional and linear relationships using verbal descriptions, tables, graphs, and formulas, and translate among these representations.</p>	<p>Leveled work Fibonacci sequence (recognize patterns in nature too)</p>	<p>Photos of honeycomb, etc</p>
<p>4-6 Graphing Linear Functions</p>	<p>A.PA.06.09 Solve problems involving linear functions whose input values are integers; write the equation; graph the resulting ordered pairs of integers.</p> <p>A.RP.06.10 Represent simple relationships between quantities using verbal descriptions, formulas or equations, tables, and graphs.</p> <p>A.PA.07.04 For directly proportional or linear situations, solve applied problems using graphs and equations.</p> <p>A.PA.07.05 Recognize and use directly proportional relationships of the form $y = mx$, and distinguish from linear relationships of the form $y = mx + b$, b non-zero; understand that in a directly proportional relationship between two quantities one quantity is a constant multiple of the other quantity.</p> <p>A.PA.07.07 Represent linear functions in the form $y = x + b$, $y = mx$, and $y = mx + b$, and graph, interpreting slope and y-intercept.</p> <p>A.RP.07.02 Represent directly proportional and linear relationships using verbal descriptions, tables, graphs, and formulas, and translate among these representations.</p>	<p>Leveled work Explore Linear Functions Lab Graphing Linear Functions Lab</p>	<p>Cup with hole Water Stopwatch</p>

Section	Outcomes	Modifications	Resources
5-1 Ratios	<p>N.ME.06.11 Find equivalent ratios by scaling up or scaling down.</p> <p>N.FL.07.05 Solve proportion problems using such methods as unit rate, scaling, finding equivalent fractions, and solving the proportion equation $a/b = c/d$; know how to see patterns about proportional situations in tables.</p>	<p>Leveled work</p> <p>Use students to form ratios</p> <p>Triangle length, perimeter, area comparison</p>	
5-2 Rates	<p>A.PA.06.01 Solve applied problems involving rates, including speed.</p> <p>N.FL.07.05 Solve proportion problems using such methods as unit rate, scaling, finding equivalent fractions, and solving the proportion equation $a/b = c/d$; know how to see patterns about proportional situations in tables.</p>	<p>Leveled work</p>	
5-3 Slope and Rates of Change	<p>A.PA.06..01 Solve applied problems involving rates, including speed.</p> <p>A.PA.07.03 Given a directly proportional or other linear situation, graph and interpret the slope and intercept(s) in terms of the original situation; evaluate $y = mx + b$ for specific x values. A.PA.07.04 For directly proportional or linear situations, solve applied problems using graphs and equations.</p> <p>A.PA.07.06 Calculate the slope from the graph of a linear function as the ratio of "rise/run" for a pair of points on the graph, and express the answer as a fraction and a decimal; understand that linear functions have slope that is a constant rate of change.</p>	<p>Leveled work</p> <p>Graphing</p> <p>Slope on steps</p>	<p>Graph paper</p> <p>Set of stairs</p>

<p>5-4 Identifying and Writing Proportions</p>	<p>N.FL.07.03 Calculate rates of change including speed.</p> <p>N.ME.06.11 Find equivalent ratios by scaling up or scaling down.</p> <p>N.FL.07.05 Solve proportion problems using such methods as unit rate, scaling, finding equivalent fractions, and solving the proportion equation $a/b = c/d$; know how to see patterns about proportional situations in tables.</p>	<p>Leveled work Compare to fractions</p>	
<p>5-5 Solving Proportions</p>	<p>N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently.</p> <p>A.FO.06.13 Understand that multiplying or dividing both sides of an equation by the same non-zero number creates a new equation that has the same solutions.</p> <p>N.FL.07.05 Solve proportion problems using such methods as unit rate, scaling, finding equivalent fractions, and solving the proportion equation $a/b = c/d$; know how to see patterns about proportional situations in tables.</p>	<p>Leveled work</p>	
<p>5-6 Customary Measurements</p>	<p>M.UN.06.01 Convert between basic units of measurement within a single measurement system.</p> <p>N.MR.07.04 Convert ratio quantities between different systems of units such as feet per second to miles per hour.</p>	<p>Leveled work Generate Formulas to Convert Units Lab Measure objects in different units</p>	<p>Measuring tapes or meter sticks</p>
<p>5-7 Similar Figures and Proportions</p>	<p>N.ME.06.11 Find equivalent ratios by scaling up or scaling down.</p> <p>G.TR.07.03 Understand that in similar polygons, corresponding angles are congruent and the ratios of corresponding</p>	<p>Leveled work Make Similar Figures Lab Similar figures with overhead</p>	<p>Grid paper Overhead and shapes</p>

<p>5-8 Using Similar Figures</p>	<p>sides are equal; understand the concepts of similar figures and scale factor. G.TR.07.04 Solve problems about similar figures and scale drawings.</p> <p>N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently. A.FO.06.13 Understand that multiplying or dividing both sides of an equation by the same non-zero number creates a new equation that has the same solutions. G.TR.07.04 Solve problems about similar figures and scale drawings.</p>	<p>Leveled work Shadow proportions</p>	<p>Sunny day</p>
<p>5-9 Scale Drawings and Scale Models</p>	<p>N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently. A.FO.06.13 Understand that multiplying or dividing both sides of an equation by the same non-zero number creates a new equation that has the same solutions. G.TR.07.03 Understand that in similar polygons, corresponding angles are congruent and the ratios of corresponding sides are equal; understand the concepts of similar figures and scale factor. G.TR.07.04 Solve problems about similar figures and scale drawings. N.FL.07.05 Solve proportion problems using such methods as unit rate, scaling, finding equivalent fractions, and solving the proportion equation $a/b = c/d$; know how to see patterns about proportional situations in tables.</p>	<p>Leveled work Using map scales</p> <p>Photos of structures → find scale factors</p>	<p>Social studies book or other maps with a scale Photos</p>

Section	Outcomes	Modifications	Resources
6-1 Percents	N.ME.06.06 Represent rational numbers as fractions or terminating decimals when possible, and translate between these representations.	Leveled work 10x10 grids	10x10 grids
6-2 Fractions, Decimals, and Percents	N.ME.06.06 Represent rational numbers as fractions or terminating decimals when possible, and translate between these representations. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work	
6-3 Estimate with Percents	N.FL.06.14 For applied situations, estimate the answers to calculations involving operations with rational numbers. N.FL.07.09 Estimate results of computations with rational numbers.	Leveled work Labeling fractions	Number lines with percents
6-4 Percent of a Number	N.FL.06.12 Calculate part of a number given the percentage and the number. A.PA.07.11 Understand and use basic properties of real numbers: additive and multiplicative identities, additive and multiplicative inverses, commutative, associative, and the distributive property of multiplication over addition. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work Explore Percents Lab	10x10 grids

<p>6-5 Solving Percent Problems</p>	<p>N.FL.06.12 Calculate part of a number given the percentage and the number. N.MR.06.13 Solve contextual problems involving percentages such as sales taxes and tips. A.PA.07.11 Understand and use basic properties of real numbers: additive and multiplicative identities, additive and multiplicative inverses, commutative, associative, and the distributive property of multiplication over addition. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.</p>	<p>Leveled work</p>	
<p>6-6 Percent of Change</p>	<p>N.FL.06.12 Calculate part of a number given the percentage and the number. N.MR.06.13 Solve contextual problems involving percentages such as sales taxes and tips. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.</p>	<p>Leveled work</p>	
<p>6-7 Simple Interest</p>	<p>N.FL.06.12 Calculate part of a number given the percentage and the number. N.MR.06.13 Solve contextual problems involving percentages such as sales taxes and tips. A.PA.07.11 Understand and use basic properties of real numbers: additive and multiplicative identities, additive and multiplicative inverses, commutative, associative, and the distributive property of multiplication over addition; N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.</p>	<p>Leveled work</p>	

Section	Outcomes	Modifications	Resources
7-1 Frequency Tables, Stem-and-Leaf Plots, and Line Plots	D.AN.07.03 Calculate and interpret relative frequencies and cumulative frequencies for given data sets. D.RE.07.01 Represent and interpret data using circle graphs, stem and leaf plots, histograms, and box-and-whisker plots, and select appropriate representation to address specific questions.	Leveled work	
7-2 Mean, Median, Mode, and Range	N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently. D.AN.07.04 Find and interpret the median, quartiles, and interquartile range of a given set of data.	Leveled work	
7-3 Bar Graphs and Histograms	D.AN.07.03 Calculate and interpret relative frequencies and cumulative frequencies for given data sets. D.RE.07.01 Represent and interpret data using circle graphs, stem and leaf plots, histograms, and box-and-whisker plots, and select appropriate representation to address specific questions.	Leveled work	
7-4 Reading and Interpreting Circle Graphs	N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently. D.RE.07.01 Represent and interpret data using circle graphs, stem and leaf plots, histograms, and box-and-whisker plots, and select appropriate representation to address specific questions.	Leveled work Circle sectors	Circle graphs

7-5 Box and Whisker Plots	D.RE.07.01 Represent and interpret data using circle graphs, stem and leaf plots, histograms, and box-and-whisker plots, and select appropriate representation to address specific questions.	Leveled work Index card quartile manipulatives Use Venn Diagrams to Display Collected Data Lab	Index cards with numbers
7-6 Line Graphs	NCTM Standards: Understand patterns, relations, and functions; Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them; Select and use appropriate statistical methods to analyze data.	Leveled work Using Technology to Display Data	Computers with spreadsheet program
7-7 Choosing an Appropriate Display	D.RE.07.01 Represent and interpret data using circle graphs, stem and leaf plots, histograms, and box-and-whisker plots, and select appropriate representation to address specific questions.	Leveled work	
7-8 Populations and Samples	N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work Bean counting representing samples and populations	Beans – several marked or “tagged”
7-9 Scatter Plots	D.AN.07.02 Create and interpret scatter plots and find line of best fit and use an estimated line of best fit to answer questions about the data.	Leveled work Samples and Lines of Best Fit Lab	Graphing calculators
7-10 Misleading Graphs	D.RE.07.01 Represent and interpret data using circle graphs, stem and leaf plots, histograms, and box-and-whisker plots, and select appropriate representation to address specific questions.	Leveled work	

Section	Outcomes	Modifications	Resources
8-1 Building Blocks of Geometry	G.GS.06.01 Understand and apply basic properties of lines, angles, and triangles.	Leveled work	
8-2 Classifying Angles	G.GS.06.01 Understand and apply basic properties of lines, angles, and triangles.	Leveled work Explore Complementary and Supplementary Angles Lab	Protractors
8-3 Angle Relationships	G.GS.06.01 Understand and apply basic properties of lines, angles, and triangles.	Leveled work Students walk parallel and perpendicular lines Look at a map to show types of lines Construct Bisectors and Congruent Angles	Compass
8-4 Properties of Circles	NCTM Standards: Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships; Recognize and use connections among mathematical ideas.	Leveled work Clock as segments Construct Circle Graphs	Analog clock Compass, protractor
8-5 Classifying Polygons	G.SR.07.01 Use a ruler and other tools to draw squares, rectangles, triangles and parallelograms with specified dimensions.	Leveled work	
8-6 Classifying Triangles	G.GS.06.01 Understand and apply basic properties of lines, angles, and triangles. G.SR.07.01 Use a ruler and other tools to draw squares, rectangles, triangles and parallelograms with specified dimensions.	Leveled work Triangle Tiles	Triangle manipulatives

8-7 Classifying Quadrilaterals	G.SR.07.01 Use a ruler and other tools to draw squares, rectangles, triangles and parallelograms with specified dimensions.	Leveled work Quadrilateral tiles	Quadrilateral manipulatives
8-8 Angles in Polygons	G.GS.06.01 Understand and apply basic properties of lines, angles, and triangles.	Leveled work	
8-9 Congruent Figures	G.GS.06.02 Understand that for polygons, congruence means corresponding sides and angles have equal measures.	Leveled work	
8-10 Translations, Reflections, and Rotations	G.TR.06.03 Understand the basic rigid motions in the plane, relate these to congruence, and apply them to solve problems. G.TR.06.04 Understand and use simple compositions of basic rigid transformations.	Leveled work Explore Transformations Lab	Geometer's Sketchpad
8-11 Symmetry	G.GS.06.01 Understand and apply basic properties of lines, angles, and triangles; G.GS.06.02 Understand that for polygons, congruence means corresponding sides and angles have equal measures. G.TR.06.03 Understand the basic rigid motions in the plane, relate these to congruence, and apply them to solve problems. G.TR.06.04 Understand and use simple compositions of basic rigid transformations. G.SR.07.01 Use a ruler and other tools to draw squares, rectangles, triangles and parallelograms with specified dimensions.	Leveled Work Create Tessellations Lab	

Section	Outcomes	Modifications	Resources
9-1 Accuracy and Precision	N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work Measure objects	Measuring tape or meter sticks
9-2 Perimeter and Circumference	N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work Explore Perimeter and Circumference Lab Lid circumference measurement	Lids of various sizes, rulers
9-3 Area of Parallelograms	N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work Explore Area of Polygons Lab Rearrange a polygon	Grid paper Paper
9-4 Area of Triangles of Trapezoids	N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work	
9-5 Area of Circles	N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers.	Leveled work Grid paper circles	Grid paper, compass
9-6 Area of Irregular Figures	N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work Irregular shapes on paper	Grid paper
9-7 Squares and Square Roots	N.MR.07.06 Understand the concept of square root and cube root, and estimate using calculators.	Leveled work Explore Square Roots and Perfect Squares Lab	Graph paper
9-8 The Pythagorean Theorem	NCTM Standards: Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships.	Leveled work Explore the Pythagorean Theorem Lab	Grid paper

Section	Outcomes	Modifications	Resources
10-1 Sketch Three Dimensional Figures	NCTM Standards: Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships; Use visualization, spatial reasoning, and geometric modeling to solve problems.	Leveled work Sketch Three-Dimensional Figures from Different Views Lab	
10-2 Volume of Prisms and Cylinders	M.TE.06.03 Compute the volume and surface area of cubes and rectangular prisms given the lengths of their sides, using formulas. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work Explore the Volume of Prisms and Cylinders Lab	3-D shapes
10-3 Volume of Pyramids and Cones	N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work	
10-4 Surface Area of Prisms Cylinders	M.TE.06.03 Compute the volume and surface area of cubes and rectangular prisms given the lengths of their sides, using formulas. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work Use Nets to Build Prisms and Cylinders Lab	Graph paper
10-5 Changing Dimensions	M.UN.06.01 Convert between basic units of measurement within a single measurement system.	Leveled Work Changing Dimensions Lab	

Section	Outcomes	Modifications	Resources
11-1 Probability	D.PR.06.01 Express probabilities as fractions, decimals, or percentages between 0 and 1; know that 0 probability means an event will not occur and that probability 1 means an event will occur. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work	
11-2 Experimental Probability	D.PR.06.01 Express probabilities as fractions, decimals, or percentages between 0 and 1; know that 0 probability means an event will not occur and that probability 1 means an event will occur. D.PR.06.02 Compute probabilities of events from simple experiments with equally likely outcomes. N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.	Leveled work Experiments	Marbles, cubes, etc, cups
11-3 Make a List to Find Sample Spaces	N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently.	Leveled work	

11-4 Theoretical Probability	<p>D.PR.06.01 Express probabilities as fractions, decimals, or percentages between 0 and 1; know that 0 probability means an event will not occur and that probability 1 means an event will occur.</p> <p>D.PR.06.02 Compute probabilities of events from simple experiments with equally likely outcomes.</p> <p>A.FO.07.08 Find and interpret the x and/or y intercepts of a linear equation or function. Know that the solution to a linear equation of the form $ax+b=0$ corresponds to the point at which the graph of $y=ax+b$ crosses the x axis.</p>	Leveled work Experimental and Theoretical Probability Lab	Marbles, cubes, etc, cups
11-5 Probability of Independent and Dependent Events	<p>D.PR.06.01 Express probabilities as fractions, decimals, or percentages between 0 and 1; know that 0 probability means an event will not occur and that probability 1 means an event will occur. D.PR.06.02 Compute probabilities of events from simple experiments with equally likely outcomes.</p>	Leveled work	
11-6 Combinations	<p>NCTM Standards: Understand and apply basic concepts of probability; Recognize reasoning and proof as fundamental aspects of mathematics.</p>	Leveled work	
11-7 Permutations	<p>N.FL.06.10 Add, subtract, multiply and divide positive rational numbers fluently.</p> <p>N.FL.07.08 Add, subtract, multiply and divide positive and negative rational numbers fluently.</p>	Leveled work	

Section	Outcomes	Modifications	Resources
12-1 Solving 2-Step Equations	<p>A.FO.06.14 Solve equations of the form $ax + b = c$.</p> <p>A.FO.07.13 From applied situations, generate and solve linear equations of the form $ax + b = c$ and $ax + b = cx + d$, and interpret solutions.</p>	Leveled work	
12-2 Solving Multi-step Equations	<p>A.FO.06.12 Understand that adding or subtracting the same number to both sides of an equation creates a new equation that has the same solution.</p> <p>A.FO.06.13 Understand that multiplying or dividing both sides of an equation by the same non-zero number creates a new equation that has the same solutions.</p> <p>A.FO.06.14 Solve equations of the form $ax + b = c$.</p> <p>A.FO.07.13 From applied situations, generate and solve linear equations of the form $ax + b = c$ and $ax + b = cx + d$, and interpret solutions.</p>	Leveled work	
12-3 Solving Equations with Variables on Both Sides	<p>A.FO.06.12 Understand that adding or subtracting the same number to both sides of an equation creates a new equation that has the same solution.</p> <p>A.FO.06.13 Understand that multiplying or dividing both sides of an equation by the same non-zero number creates a new equation that has the same solutions.</p> <p>A.FO.06.14 Solve equations of the form $ax + b = c$.</p> <p>A.FO.07.13 From applied situations, generate and solve linear equations of the form $ax + b = c$ and $ax + b = cx + d$, and interpret solutions.</p>	Leveled work	

12-4 Inequalities	A.FO.06.06 Represent information given in words using algebraic expressions and equations.	Leveled work	
12-5 Solving Inequalities by Adding or Subtracting	A.FO.06.12 Understand that adding or subtracting the same number to both sides of an equation creates a new equation that has the same solution.	Leveled work	
12-6 Solving Inequalities by Multiplying or Dividing	A.FO.06.13 Understand that multiplying or dividing both sides of an equation by the same non-zero number creates a new equation that has the same solutions.	Leveled work	
12-7 Solving Two-Step Inequalities	<p>A.FO.06.12 Understand that adding or subtracting the same number to both sides of an equation creates a new equation that has the same solution.</p> <p>A.FO.06.13 Understand that multiplying or dividing both sides of an equation by the same non-zero number creates a new equation that has the same solutions.</p>	Leveled work	