

Number Sense		
Third Grade	Fourth Grade	Fifth Grade
<p>MA.3.NS.1.a.1: Read, demonstrate, and write whole numbers up to 200, in standard and word form.</p>	<p>MA.4.NS.1.a.1: Read, demonstrate, and write whole numbers up to 500.</p>	<p>MA.5.NS.3.a.1: Compare the value of a digit when it is represented in different place values of 2 three-digit numbers.</p> <p>5.NS.4: Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.</p>
<p>MA.3.NS.2.a.1: Compare two whole numbers up to 200 using $>$, $=$, and $<$ symbols and words.</p>	<p>MA.4.NS.2.a.1: Compare two whole numbers up to 500 using $>$, $=$, and $<$ symbols and words.</p>	
<p>MA.3.NS.3.a.1: Identify the numerator of a fraction.</p> <p>MA.3.NS.3.a.2: Identify the denominator of fractions to halves, thirds, fourths.</p> <p>MA.3.NS.3.a.3: Identify halves, thirds, fourths of a whole.</p>	<p>MA.4.NS.3.a.1: Express a whole number as a fraction.</p>	<p>MA.5.NS.2.a.1: Represent fractions as part of a set, whole, or division of whole numbers.</p>
<p>MA.3.NS.4.a.1: Locate given common unit fractions (i.e., $\frac{1}{2}$, $\frac{1}{4}$) on a number line that has a value between 0 and 1.</p>		
<p>MA.3.NS.5.a.1: Represent halves and fourths between 0 and 1 on a number line.</p>		
<p>MA.3.NS.6.a.1: Understand two fractions as equivalent (equal).</p>	<p>MA.4.NS.4.a.1: Using a model, show equivalent fractions for fractions up to tenths.</p>	
<p>MA.3.NS.7.a.1: Recognize simple equivalent fractions using models to show equivalence.</p>		

MA.3.NS.8.a.1: Use =, <, or > and/or words to compare two fractions with the same denominator using a model.

MA.4.NS.5.a.1: Use symbols =, <, or > and words to compare two fractions (fractions with the different denominator of 10 or less).

MA.5.NS.1.a.1: Compare two fractions using symbols <, >, and = symbols and vocabulary.

MA.5.NS.1.a.2: Compare two decimals to the

	MA.4.NS.7.a.1: Compare two decimals to the tenths place with a value of less than 1.	hundredths place with a value of less than 1 using symbols $<$, $>$, and $=$ symbols and vocabulary.
MA.3.NS.9.a.1: Use place value to round two-digit numbers to the nearest 10.	MA.4.NS.9.a.1: Use place value to round 3-digit numbers to tens or hundreds.	MA.5.NS.5.a.1: Round decimals to the nearest whole number.
	MA.4.NS.6.a.1: Write tenths in decimal and fraction notations. MA.4.NS.6.a.2: Know the fraction and decimal equivalent for halves and fourths up to 1. MA.4.NS.8.a.1: Identify a factor pair for a product up to 50.	MA.5.NS.6.a.1: Use a model to represent percent as part of 100.

Computation		
Third Grade	Fourth Grade	Fifth Grade
MA.3.C.1.a.1: Add and subtract whole numbers with sums up to 100.	MA.4.C.1: Add and subtract multi-digit whole numbers with sums up to 500	
MA.3.C.2.a.1: Represent the concept of multiplication with manipulatives and arrays with numbers 1, 5, and 10.	MA.4.C.7.a.1: Using models, demonstrate understanding of the commutative property using numbers less than 5.	5.C.3: Compare the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication.
MA.3.C.3.a.1: Represent division by sorting a set number of objects into a set number of groups. Up to 20 objects into up to 5 groups.	MA.4.C.3.a.1: Represent division by sorting up to 50 objects into groups without remainders.	MA.5.C.2.a.1: Divide multi-digit whole numbers with dividends up to 100 without remainders.
MA.3.C.4.a.1: Use representations of division (by sorting a set number of objects into a set number of groups) to find how many in one group. Up to 20 objects into up to 5 groups.		
MA.3.C.5.a.1: Apply strategies of multiplication, including zero property of multiplication and identity property multiplication.	MA.4.C.2: Multiply two-digit numbers by one-digit numbers	
MA.3.C.6.a.1: Solve multiplication facts up to 10.	MA.4.C.4: Multiply single digit numbers fluently.	MA.5.C.1.a.1: Multiply two-digit numbers by two-digit numbers.
	MA.4.C.5.a.1: Using a model, represent the concept of adding and subtracting fractions (e.g., $\frac{3}{4} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$).	MA.5.C.4.a.1: Add and subtract fractions with unlike denominators, limiting denominators to halves, fourths, fifths, and tenths.
	MA.4.C.6.a.1: Using a model, represent the concept of adding and subtracting mixed numbers with common denominators.	
		MA.5.C.5.a.1: Use models to multiply a fraction by a whole number.
		MA.5.C.6.a.1: Determine whether the product will increase or decrease based on the multiplier.
		MA.5.C.7.a.1: Use models to divide whole numbers by one half to solve for total number of

	parts.
	MA.5.C.8.a.1: Solve one-step problems using decimals.
	MA.5.C.9.a.1: Evaluate an expression with one set of parentheses

Algebraic Thinking		
Third Grade	Fourth Grade	Fifth Grade
MA.3.AT.1.a.1: Use pictures and/or manipulatives to solve real-world addition and subtraction work problems with sums up to 100.	MA.4.AT.1.a.1: Solve one- or two-step word problems requiring addition and/or subtraction with sums up to 500.	
MA.3.AT.2.a.1: Use pictures, manipulatives, and/or arrays to solve real world one step multiplication and division word problems within 100.	MA.4.AT.2.a.1: Recognize and apply the relationship between addition and multiplication	MA.5.AT.1.a.1: Solve problems or word problems using up to 2-digit multiplication or 3-digit dividend with no remainder.
MA.3.AT.3.a.1: Use pictures, manipulatives, and/or tables to solve real-world two-step addition and subtraction word problems up to 100.	MA.4.AT.4.a.1: Solve a real-world problem involving multiplicative comparison with product unknown.	
MA.3.AT.4.a.1: Create a model to represent a multiplication problem.	MA.4.AT.3.a.1: Represent verbal statements of multiplicative comparisons as multiplication equations.	
MA.3.AT.5.a.1: Apply properties of operations as strategies to multiplication or division.		
MA.3.AT.6.a.1: Identify number patterns using multiplication within 100.	MA.4.AT.6.a.1: Understand that a variable in an equation is representing a number.	MA.5.AT.8.a.1: Given a real-world problem, evaluate the expressions for the specific values of up to two variables.
	MA.4.AT.5.a.1: Solve a real-world problem using a model to represent the concept of adding and subtracting fractions (e.g., $\frac{3}{4} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$).	MA.5.AT.2.a.1: Solve word problems involving the addition and subtraction of fractions with unlike denominators of halves, fourths, fifths, tenths.
		MA.5.AT.3.a.1: Solve real-world problems involving multiplication of a fraction and a whole number.
		MA.5.AT.4.a.1: Solve real-world problems involving the division of a whole number by one half to find the total parts.
		MA.5.AT.5.a.1: Solve one step real-world problems involving addition, subtraction, multiplication, and division with decimals to the hundredths place.

MA.5.AT.6.a.1: Locate points on a graph and identify x and y axis.

MA.5.AT.7.a.1: Graph ordered pairs in the first quadrant of coordinate plane.

Geometry		
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MA.3.G.1.a.1: Identify the following: cube, sphere, cylinder, cone.		
MA.3.G.2.a.1: Identify shared attributes of shapes based on the models provided.	MA.4.G.5.a.1: Classify shapes based on attributes (angles, parallel and perpendicular lines).	MA.5.G.2.a.1: Recognize properties of simple plane figures by counting the number of sides. MA.5.G.2.a.2: Distinguish plane figures by the name of the shape and number of sides.
MA.3.G.3.a.1: Use points to create a straight line with a ruler, straight edge, or technology.	MA.4.G.1.a.1: Using models and representations, identify the following shapes: parallelograms, rhombuses, and trapezoids.	MA.5.G.1.a.1: Categorize angles as right, acute, or obtuse. MA.5.G.1.a.2: Identify the diameter and radius of a circle.
	MA.4.G.3.a.1: Recognize an angle in two-dimensional shape.	
	MA.4.G.4.a.1: Identify parallel and perpendicular lines.	
MA.3.G.4.a.1: Partition shapes into equal parts (halves, thirds, fourths) with equal area.	MA.4.G.2.a.1: Recognize a line of symmetry in a figure.	

Measurement		
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<p>MA.3.M.1.a.1: Measure volume using gallons, quarts, liters.</p>	<p>MA.4.M.2.a.1: Identify the appropriate units of measurement for different purposes in a real life context (e.g., measure a wall using feet, not inches).</p>	<p>MA.5.M.1.a.1: Convert measurements of time (days in a week, hours in a day, months in a year, minutes in an hour, seconds in a minute).</p> <p>MA.5.M.1.a.2: Solve problems involving time lapse.</p>
	<p>MA.4.M.3.a.1: Solve real-world problems involving intervals of time to the half-hour.</p>	
	<p>MA.4.M.3.a.2: Solve real-world problems involving money up to the value of five dollars.</p>	
<p>MA.3.M.2.a.1: Select appropriate tool for measuring length, weight, and temperature.</p>	<p>MA.4.M.1.a.1: Measure length to nearest quarter-inch.</p>	
<p>MA.3.M.3.a.1: Tell and write time to the nearest quarter hour. Solve real-world word problems involving the addition and subtraction of time intervals to whole hours or within an hour (e.g., whole hours: 5:00 to 8:00, within hours: 7:15 to 7:45) using manipulatives or pictures of a clock.</p>		
<p>MA.3.M.4.a.1: Solve real-world problems to determine whether there is enough money to make a purchase using the next dollar strategy (round up to the next whole dollar).</p>		
<p>MA.3.M.5.a.1: Find the area of rectangles by modeling with unit squares.</p>	<p>MA.4.M.4.a.1: Solve real-world problems using area.</p>	
<p>MA.3.M.6.a.1: Use tiling and addition to determine area of a rectangle.</p>		
<p>MA.3.M.7.a.1: Identify a figure as getting larger or smaller when the dimensions of the figure change.</p>		<p>MA.5.M.2.a.1: Multiply whole numbers to find the area of a rectangle.</p>
<p>MA.3.M.7.a.2: Use addition to find the perimeter of a polygon.</p>		<p>MA.5.M.3.a.1: Provided the formula, students will insert the correct numbers into the correct location of the formula.</p>
	<p>MA.4.M.5.a.1: Find an angle in a circle.</p>	

MA.4.M.6.a.1: Select an appropriate tool for measuring angles.

MA.5.M.4.a.1: Model volume by counting the number of cubic units that fit into a rectangular prism

MA.5.M.5.a.1: Provided the formula, students will insert the correct numbers into the correct location of the formula.

MA.5.M.6.a.1: Provided the formula, solve for volume.

Data Analysis (and Statistics in Gr.5)

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<p>MA.3.DA.1.a.1: Organize given data into a graph.</p> <p>MA.3.DA.1.a.2: Select the appropriate statement that describes the data representations based on a given bar graph or picture graph.</p>	<p>MA.4.DA.1.a.1: Interpret data from a table or bar graph.</p>	<p>MA.5.DS.1.a.1: Use data (from a bar graph) to determine questions that could be answered with the graph, or answer a simple question about the graph (e.g., average height among 3 classrooms, # of boys and girls).</p>
<p>MA.3.DA.2.a.1: Organize measurement data into a line plot.</p>	<p>MA.4.DA.2.a.1: Graph provided data on a line plot.</p>	
	<p>MA.4.DA.3.a.1: Interpret data displayed in a circle graph up to halves and fourths.</p>	
		<p>MA.5.DS.2.a.1: Use a completed line plot to find mode and median.</p>

Color Key

Purple – High Priority

Blue – Medium Priority

Gray – Lesser Priority