

**Curriculum Guidebook: Math
2018-2019**

Guide ID	Description	Gr PK	Gr K	Gr 1	Gr 2	Gr 3	Gr 4	Gr 5	Gr 6	Gr 7	Gr 8
Numbers											
001	Participate in activities related to number sequencing and counting.	X									
002	Manipulate a variety of objects and describe their observations about quantity and comparative relationships (more, less, equal).	X									
003	Participate in activities that associate numbers with objects.	X									
004	Recognize and write numbers to ten.	X									
005	Identify which number is greater or less using numbers to 10.	X									
021	Demonstrate increasing interest in and awareness of numbers and counting as a means for solving problems and determining quantity.	X									
031	Recognizes and uses ordinal numbers		X	X	X						
032	Recognizes the standard form for tens and ones		X								
033	Orders numbers to 100		X	X							
034	Recognizes groups of objects that are equal, less or more		X								
035	Recognizes and writes numbers to 30		X								
060	Count by two's to 20		X								
061	Count by five's to 50		X								
062	Count by ten's to 100		X								
065	Create, represent and recognize a set with a given number of objects (1-1 correspondence and number sense)		X								
066	Introduce even and odd numbers		X								
067	Uses a number line		X								
075	Counts numbers to 20.	X									
077	Be introduced to numbers up to 100.	X									
078	Demonstrate an understanding of one-to-one correspondence by counting objects	X									
079	Demonstrate understanding of ordinal numbers.	X									
080A	<i>Listen to and say the names of numbers in many contexts</i>	X									
080B	<i>Verbally count forward in sequence from 1-30</i>	X									
080C	<i>Understand the relationships between numerals, names of numbers and quantities up to 10 (includes subitizing--the ability to look at a quantity and say the quantity (1-4) quickly. . .just by looking)</i>	X									
080D	<i>Understand the relationship between numbers and quantities with concrete objects up to 10</i>	X									
080E	<i>Use one-to-one correspondence to accurately count up to 10 objects in a scattered configuration</i>	X									
080F	<i>Understand that the last number name said tells the number of objects counted, up to ten</i>	X									

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<i>080G</i>	<i>With guidance and support count to answer "how many?" questions about as many as 10 things arranged in a line or as many as 5 things in a scattered configuration; given a number from 1-10, count out that many objects</i>	X									
<i>080H</i>	<i>Use comparative language, such as more/less than or equal to, to compare and describe collections of objects by matching</i>	X									
101	Differentiates between odd and even numbers			X			X				
102	Writes the standard form for tens and ones			X							
103	Identifies which number is greater or less using numbers to 100			X	X						
104	Counts by twos, fives, and tens to 100			X							
105	Recognizes and writes numbers to 100			X							
106	Identifies place value to the 100th			X							
138	Counts to 100 by 1			X							
145	Adds or subtracts with zero			X							
146	Counts using tally marks			X							
147	Identifies a dozen			X							
203	Orders or compares numbers greater than 100					X					
204	Rounds numbers to the nearest tens				X						
205	Counts by twos, threes, fives, and tens to 100				X						
206	Orders and compares numbers up to 1000				X						
207	Recognizes and writes the standard form and expanded form for numbers up to 1000				X						
208	Understands place value to 1000 (one thousands)				X						
228	Differentiate between even and odd numbers.				X						
229	Recognize, create and use fact families.				X						
244	Uses addition to check subtraction.				X						
300	Recognizes and uses commutative property (order)					X	X	X		X	X
301	Recognizes and uses associative property (grouping)					X	X	X		X	X
305	Understands place value to the 100 thousands					X	X				
306	Rounds off numbers to tens and hundreds					X					
307	Recognizes and understands symbols X and division symbols.					X					
400	Recognizes and uses distributive property						X	X	X	X	X
414	Writes numbers in expanded notation for numbers in standard notation and vice versa						X				
415	Orders or compares numbers greater than 1000						X				
416	Rounds off numbers 1,000 to 10,000						X				
417	Recognizes I,V,X,L,C, and M as Roman Numerals						X				
418	Recognizes and writes the standard form for numbers greater than 1000						X				
500	Recognizes and uses identity property.							X	X	X	X
529	Understands place value to billions							X			
530	Orders or compares numbers greater than 100,000							X			

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531	Rounds off numbers greater than ten thousand							X			
609	Evaluates exponents								X		
610	Understands and applies place value to billions								X		
611	Understands and applies place value to the billionths								X		
637	Find the square root of a perfect square.								X		
700	Understands raising a base to a power									X	X
701	Writes a number in scientific notation and writes the standard form for a number in scientific notation									X	X
702	Writes the standard form for numbers in exponential notation									X	
703	Finds perfect squares and their square roots									X	X
719	Compares, adds, subtracts, multiplies, or divides two rational numbers										X
811	Writes the standard form for numbers in exponential notation using positive and negative exponents.										X
822	Use a Venn diagram to represent the subsets of the real numbers.										X
Addition											
037	Adds two numbers with sums to 10		X								
107	Adds or subtracts with money					X	X				
108	Adds two or three numbers with sums to 18			X							
109	Adds a 2-digit and 1-digit number without regrouping			X	X						
110	Adds three or more 1-digit numbers			X	X						
111	Adds two 2-digit numbers with no regrouping			X	X						
209	Adds two 3-digit numbers with no regrouping				X	X					
210	Adds two 2-digit numbers with regrouping				X						
211	Adds three 2-digit numbers with no regrouping				X						
212	Adds three 2-digit numbers with regrouping				X						
213	Adds three 3-digit numbers with no regrouping				X						
230	Develops fluency with basic addition facts to 18.				X						
231	Adds money, using cent signs.				X						
232	Adds money, using dollar signs and decimal point.				X						
308	Adds 3- to 6-digit numbers with regrouping.					X	X	X			
Subtraction											
038	Subtracts from numbers to 10		X								
112	Subtracts from numbers through 18			X							
113	Subtracts two 2-digit numbers with no regrouping			X	X						
114	Subtracts a 1-digit number from a 2-digit number			X	X						
148	Counts backward from 20			X							
214	Subtracts two 3-digit numbers with no regrouping				X						

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215	Subtracts two 2-digit numbers with regrouping				X						
233	Develops fluency using subtraction facts to 18.				X						
234	Subtracts money, using cent signs.				X						
235	Subtracts money, using dollar signs and decimal point.				X						
309	Subtracts 3- to 6-digit numbers with regrouping.					X	X				
532	Subtracts two or more 3- to 6-digit numbers with regrouping							X			
Multiplication											
247	Uses multiple models to represent multiplication.				X						
249	Relates skip counting and repeated addition to multiplication.				X						
310	Multiplies a 2- 3- or 4-digit number by a 1-digit number with regrouping					X	X				
312	Multiplies two 1-digit numbers using facts to 81					X					
401	Finds the factors of a number, determines if a number is prime or composite, or writes the prime factorization of a number							X	X	X	X
420	Multiplies a 2-digit number by a 2-digit Number							X	X		
421	Multiplies a 3-digit number by a 2-digit Number							X	X		
422	Multiplies by 10 100 1000							X			
501	Finds the greatest common factor of two numbers							X		X	
502	Recognizes and finds the powers of 10							X	X	X	X
533	Recognizes and finds the powers of 10 and writes in exponential form							X			
534	Multiplies a 3- or 4-digit number by a 3-digit number							X			
535	Multiplies money							X			
536	Uses mental math to multiply by 10 100 1000							X			
600	Multiplies and divides by the powers of 10								X		X
612	Multiplies or divides with money								X		
625	Multiplies and divides by the powers of 10 mentally.								X		
626	Finds the greatest common factor of two or more numbers.								X		
704	Multiplies a decimal by a whole number or decimal, including negative.									X	
728	Multiplies by the powers of 10.									X	
812	Finds the greatest common factor of two or more terms.										X
Division											
248	Uses multiple models to represent division.				X						
250	Relates repeated subtraction to division.				X						
314	Divides using facts to 81					X					
424	Divides by 10, 100, 1000							X	X		
440	Learns terminology of division							X			
443	Divides a 4- and 5-digit number by a 1-digit number with or without a remainder							X			
537	Learn rules for divisibility by 2,3,4,5,6,7,8,9,10								X		

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538	Writes a remainder as a fraction							X	X		
539	Writes a remainder as a decimal							X	X		
540	Divides a 3- to 5-digit number by a 1-digit number with a remainder							X			
541	Divides a 2- to 5-digit number by a 2-digit number							X			
614	Divides a 3- to 6-digit number by a 3-digit number								X		
615	Learn rules for divisibility by 2,3,4,5,6,9,10								X		
725	Divide the decimal by a whole number or decimal, including negative.									X	
726	Divide by the powers of 10.									X	
423A	Divide a 2-digit number by a 1-digit number with or without a remainder.						X				
423B	Divides a 3-digit number by a 1-digit number with and without a remainder						X				
423C	Divides a 4- or 5-digit number by a 1-digit number with or without a remainder.						X				
Fractions											
039	Identifies equal parts		X								
059	Be introduced to the concept of half.	X									
115	Writes a fraction for the shaded parts of regions or the indicated parts of groups of objects			X	X	X	X				
116	Identifies half, thirds, fourths, whole			X							
216	Identifies half, thirds, fourths, fifths and eighths.				X						
315	Compares two fractions with like denominators					X	X	X			
316	Identifies the numerator and the denominator of a fraction					X	X	X			
402	Lists the multiples of a number and finds the least common multiple of two numbers						X	X		X	
403	Writes a mixed number as a fraction						X	X	X		
404	Writes a fraction as a mixed number						X	X	X		
419	Finds the greatest common factor of two numbers						X				
426	Adds fractions with like denominators.						X	X			
427	Subtracts fractions with like denominators						X	X			
428	Find fractional part of a whole number						X				
444	Models half, thirds and fourths.						X				
503	Finds the fractional part of a whole number							X	X	X	X
504	Orders or compares two fractions or mixed numbers with unlike denominators							X	X	X	
505	Adds fractions with like denominators with regrouping							X			
506	Adds fractions with unlike denominators with no regrouping							X			
507	Adds fractions with unlike denominators with regrouping							X			
508	Adds mixed numbers with like or unlike denominators with regrouping							X			
509	Subtracts fractions with unlike denominators							X	X		
510	Subtracts mixed numbers with unlike denominators with no regrouping							X	X		
511	Subtracts a fraction or a mixed number from a whole number							X	X	X	
512	Subtracts mixed numbers with unlike denominators with regrouping							X	X		

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513	Multiplies a whole number and a fraction							X	X	X	
514	Multiplies two fractions							X	X	X	
515	Multiplies a mixed number by a fraction, whole number, or another mixed number							X	X		
516	Finds the reciprocal of a fraction and relates division by a whole number to multiplication by its reciprocal							X	X		
517	Divides a whole number by a fraction							X	X	X	
518	Divides a fraction by a fraction							X	X	X	
519	Divides a mixed number by a fraction							X	X	X	
520	Divides a fraction or mixed number by a whole number							X	X	X	
521	Divides a mixed number or a whole number by a mixed number							X	X	X	
542	Writes the simplest form for a fraction							X	X		
601	Solves a proportion								X	X	X
602	Writes ratios as fractions								X	X	
606	Writes a fraction as a terminating decimal, repeating decimal, or as a decimal rounded to the nearest hundredth								X	X	
627	Subtracts mixed numbers with like and unlike denominators and simplified sum								X		
628	Adds mixed numbers with like and unlike denominators and simplified sum.								X		
629	Adds fractions with like denominators and simplified sum.								X		
630	Adds fractions with unlike denominators and simplified sum.								X		
705	Finds a rate or a unit rate									X	X
729	Subtracts mixed numbers with like and unlike denominators with regrouping.									X	
730	Multiplies a mixed number by a mixed number.									X	
731	Adds fractions with unlike denominators.									X	
732	Subtracts mixed numbers with like and unlike denominators with no regrouping.									X	
733	Add mixed numbers with like or unlike denominators.									X	
734	Demonstrates an understanding of the relationship between fractions, decimals and percent by converting accordingly.									X	
810	Simplifies complex fractions without variables.										X
Measurement											
006	Develops an awareness of simple time concepts.	X									
007	Use terms such as before, after, yesterday, tomorrow, morning, afternoon, day and night appropriately.	X									
008	Demonstrate/describe different rates of speed such as fast and slow.	X									
009	Name the four seasons.	X									
010	Identify hour and minute hands.	X									
011	Name the days of the week.	X									
012	Name the months of the year.	X									
013	Measure length using informal units (i.e., cubes, inches, blocks)	X									

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014	Decide which of three objects is largest or smallest.	X									
015	Decide which of three objects is longest or shortest.	X									
016	Decide which of three objects is heaviest or lightest.	X									
017	Decide which of three objects is first or last.	X									
018	Relate temperature to weather outdoors.	X									
040	Tells time to the hour and introduce time to the half hour		X								
041	Measures length using informal units		X	X							
042	Recognizes and writes time using the analog clock and digital clock		X								
043	Determines which object is lighter or heavier by comparison		X	X							
044	Names the days, months and year		X								
045	Identifies the hour and minute hand		X								
046	Completes an outline of a given month		X								
048	Identifies the cent and dollar sign		X								
063	Identifies pennies, nickels and dimes		X								
064	Identifies quarters and dollars		X								
072	Identify hour and minute on a digital clock.	X									
073	Demonstrate an understanding of positional concepts such as above, below, beside, on, off, in front of, behind.	X									
081A	<i>Recognize the attributes of length (how long, tall, short), area (how much it covers), weight (how heavy or light), and volume or capacity (how much it holds) of everyday objects using appropriate vocabulary</i>	X									
081B	<i>Explore the concept of measurement to compare the attributes of two or more concrete objects and use words to define attributes of the objects (i.e. heavier/lighter, longer/shorter, covers more/covers less, holds more/holds less)</i>	X									
081C	<i>Sort, categorize, and classify objects by more than one attribute</i>	X									
117	Measures length using inches			X	X						
118	Decides which of three objects is largest, smallest, longest, or shortest			X							
119	Tells time to the hour and half hour					X					
121	Identifies hours in a day, minutes in an hour, seconds in a minute			X	X						
122	Identifies the value of a mixed coin amount up to \$1.00			X	X						
124	Identifies and writes time to the hour and half hour using an analog clock and a digital clock			X	X						
126	Identifies the value of pennies, nickels, dimes, quarters, half dollars, and dollars using manipulatives			X	X						
127	Names the days and months in order			X							
140	Identify year			X							
143	Uses estimation in measurement			X							
144	Measures length using centimeters			X	X	X	X			X	
149	Measures volume of a liquid such as cup, pint, quart and gallon			X							

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217	Determines the appropriate unit for measuring length using inch, foot, yard, or mile				X	X	X				
218	Determines the appropriate unit for measuring liquid using cup, pint, quart, or gallon				X	X	X				
219	Determines the appropriate unit for measuring mass (weight) using ounces or pounds				X	X					
220	Tells time to the five minute interval					X	X				
221	Reads a thermometer to determine temperature measured in degrees F or C				X		X				
222	Identifies and writes time to the quarter hour				X	X					
223	Identifies and writes time to the minute, using analog and digital clocks				X						
224	Identifies the use of AM and PM				X						
236	Measures lengths with non-standard units.				X						
237	Solves problems using the calendar.				X						
238	Determines elapsed time to hour and half-hour intervals.				X						
239	Measures area and perimeter.				X						
240	Compares values with dollar sign and cent sign.				X						
317	Tells elapsed time					X	X	X	X		
318	Determines the appropriate metric unit for liquid measure using the liter or milliliter					X	X				
319	Determines the appropriate metric unit for measuring mass (weight) using gram or kilogram					X	X				
320	Uses a thermometer to measure temperature in degrees F and C.					X					
321	Determines the appropriate metric unit for measuring length using centimeter, meter, or kilometer					X					
322	Measures length to the nearest inch and half inch.					X					
323	Recognizes the Fahrenheit and Celsius Thermometers					X					
342	Determine the correct change from a transaction up to \$5.00.					X					
343	Tells time to the minute.					X					
429	Measures length using fractions of inches (1/4 of inch)						X	X			
430	Determines the appropriate unit for measuring mass (weight) using ounces, pounds and tons.						X				
431	Determines the appropriate metric unit for measuring length using centimeter, meter, kilometer, decimeter or millimeter						X				
432	Tells time using minutes and seconds						X				
544	Recognizes the appropriate metric unit for measuring mass (weight) using gram, centigram, kilogram, decigram and milligram.							X			
545	Recognizes the appropriate unit for measuring length using inch, foot, yard, or mile							X			
546	Recognizes the appropriate unit for measuring liquid using cup, pint, quart, or gallon							X			
547	Recognizes the appropriate unit for measuring mass (weight) using ounces, pounds and tons.							X			
549	Recognizes the appropriate metric unit for measuring length using centimeter, meter, kilometer, decimeter or millimeter							X			

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551	Recognizes the appropriate metric unit for liquid measure using the liter, centiliter, kiloliter, deciliter, and milliliter							X			
617	Measure length, volume, mass accurately using customary and metric units								X		
618	Metric conversion								X		
634	Find the circumference of a circle.								X		
706	Converts units within the metric and customary measurement systems									X	
Problem Solving											
019	Manipulate objects through play to identify similarities and differences.	X									
020	Sort and classify materials in more than one way.	X									
022	Identify, copy, extend, and create patterns with objects and in drawings.	X									
024	Demonstrate critical thinking through the use of manipulatives, blocks, etc.	X									
049	Chooses operations to solve problems		X								
050	Adds or subtracts to solve oral problems		X								
051	Sort and classify objects by common attributes		X								
052	Describes, extends, and creates patterns		X								
053	Draws pictures to represent problems.		X								
054	Identifies that number sentences may be written either horizontally or vertically		X								
055	Uses manipulatives		X								
070	Recognizes and applies Mathematics in relationship to the real world		X								
071	Uses technology for developing Math skills		X								
128	Uses data to solve word problems			X	X	X	X				
129	Adds or subtracts to solve word problems			X	X	X	X				
130	Predicts numbers in a pattern			X	X	X	X	X			
131	Makes a model or diagram in order to solve problems			X	X	X	X	X			
132	Recognizes symbols +, -, =, < and >			X							
150	Uses a variety of adding and subtracting strategies such as counting on, fact families and number line			X							
200	Determines if a problem has sufficient information or unnecessary information or if an answer is reasonable				X		X	X			
201	Chooses correct operations to solve word problems				X	X	X	X	X		
241	Recognizes symbols +, -, =, <, >, x, and ÷				X						
246	Solves multi-step word problems.				X						
302	Solves problems with sufficient information or unnecessary information or determines if an answer is reasonable						X		X		
324	Multiplies or divides to solve word problems					X	X				
325	Uses guess and check to solve problems					X	X	X			
336	Determine if an answer to a problem is reasonable.					X					
405	Solves problems involving price comparison or cost analysis						X				

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406	Estimate to check if an operation is reasonable.						X				
433	Finds more than one answer						X				
522	Solves word problems involving fractions, mixed numbers, or decimals							X	X	X	X
552	Adds, subtracts, multiplies or divides to solve word problems							X			
707	Solves discount and sales tax problems									X	
708	Solves interest problems									X	X
709	Solves problems involving rate time and distance									X	X
727	Solve problems involving price comparison or cost analysis (unit pricing).									X	
813	Solves problems involving price comparison or cost analysis (unit pricing)										X
814	Solves discount mark-up and sales tax problems.										X
Estimation											
056	Demonstrates estimation skills involving number and measurement. (estimate)		X								
242	Makes reasonable estimation of measurements.				X						
243	Estimates sums and differences of two-digit numbers.				X						
326	Estimates a sum of two whole numbers					X	X	X			
327	Rounds amounts of money to nearest dollar					X	X				
328	Estimates a difference of two whole numbers					X	X	X			
329	Estimates a product of two whole numbers					X	X	X			
330	Estimates a quotient of two whole numbers						X	X			
523	Estimates a sum, difference, product, or quotient of two decimals or of a whole number and a decimal							X	X	X	
619	Rounds amounts of money to nearest dollar and cents								X		
624	Round fractions to nearest whole number								X		
Graphs & Charts											
029	Constructs a graph from given data		X							X	
057	Identifies and reads a graph		X								
133	Collects data and constructs appropriate type of graph			X	X			X			X
134	Uses a table or a chart to gain information or solve problems			X	X	X	X	X	X		
135	Interprets a bar graph, pictograph, line graph or pie graph			X		X	X	X			
226	Uses a pictograph, bar graph, line graph and circle graph to gain information or solve problems				X	X	X				
407	Graphs a set of numbers (points) on the number line						X	X		X	X
408	Interprets a circle graph						X	X		X	
409	Interprets a scale drawing						X			X	
434	Understands the number line as a dense set of points representing numbers						X	X			
435	Writes the number pair for a point or names the point for a number pair						X	X			
445	Determines and constructs appropriate graph to be used with given data.						X				

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553	Names the point for an ordered pair on the number plane and graphs ordered pairs							X			
603	Identifies and graphs the point for an ordered pair								X	X	X
620	Interprets a bar graph, pictograph, line graph, histograms and circles								X		
631	Grafts all rational numbers of the number line.								X		
632	Uses given or collected data to construct appropriate goals.								X		
710	Represents functions as ordered pairs									X	
807	Solves inequalities using addition and subtraction and graphs the solution										X
808	Solves inequalities using multiplication and division and graphs the solution										X
809	Solves two-step inequalities and graphs the solution in one variable.										X
Statistics											
245	Describes an event as likely or unlikely.				X						
303	Finds the probability of an outcome					X		X	X	X	
447	Find the probability of an outcome.						X				
448	Introduce mean, median, mode and range.						X				
554	Finds the range of a group of numbers							X			
555	Finds the mode of a group of numbers							X			
556	Finds the average/mean of a group of numbers							X			
557	Finds the median of a group of numbers							X			
564	Represent the likelihood of an event using a fractional number from zero to one.							X			
604	Finds the average/mean, median, mode and range of a group of numbers								X	X	X
815	Finds the probability and odds of an outcome.										X
823	Create and interpret box-whisper plots, scatter plots and stem-leaf plots.										X
Geometry											
026	Identify and name circles, triangles, rectangles, squares, ovals, stars, hexagons, diamonds and octagons.	X									
027	Name simple geometric terms.	X									
028	Identify similar geometric shapes.	X									
030	Identifies similar shapes		X		X			X			
058	Identifies and describes basic shapes such as circles, squares, triangles, hexagons, trapezoids		X								
068	Identifies and describes three-dimensional shapes such as sphere, cube, cone, cylinder		X								
069	Identifies and uses positional words such as left, right, above, beyond		X								
082A	<i>Identify relative positions of objects in space, and use appropriate language (e.g., beside, inside, next to, close to, above, below, apart)</i>	X									
082B	<i>Identify several basic shapes</i>	X									

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Guide ID	Description	Gr PK	Gr K	Gr 1	Gr 2	Gr 3	Gr 4	Gr 5	Gr 6	Gr 7	Gr 8
082C	<i>With guidance and support, explore the attributes of two- and three-dimensional shapes</i>	X									
082D	<i>With guidance and support, compare and contrast the attributes of two- and three-dimensional shapes of different sizes and orientations, identifying shapes that are _____ and shapes that are not _____</i>	X									
082E	<i>Identify shapes in the real world environment</i>	X									
082F	<i>With guidance and support, create and name new shapes formed when putting two shapes together (e.g. two right triangles of the same size put together would make a rectangle)</i>	X									
100	Identifies spheres, rectangular boxes, cubes, cones, cylinders, pyramids			X	X		X	X			
136	Uses simple geometric terms			X			X				
137	Identifies circles, triangles, rectangles, squares, diamonds and ovals			X							
141	Understands symmetry			X							
202	Identifies congruent shapes				X	X		X			
227	Draws lines of symmetry in shapes				X	X	X	X			
304	Determines the perimeter of a polygon.					X	X	X	X	X	
331	Identify types of polygons such as triangle, quadrilateral, pentagon, hexagon, heptagon, and octagon.					X	X	X	X		
337	Identifies three-dimensional shapes such as sphere, prism, pyramids, cube, cone, cylinder, rectangle.					X					
338	Determine the area of a polygon.					X					
339	Identify line, line segment, rays, parallel line, intersecting line.					X					
340	Identify and create acute, obtuse and right angles.					X					
341	Identify a line of symmetry.					X					
410	Finds the area of geometric shapes						X		X		
411	Finds the volume of geometric solids						X				
412	Identifies and uses symbols for points, line segments, angles, lines, rays, planes, parallel lines, perpendicular lines						X	X	X	X	
413	Classifies triangles, special quadrilaterals, and regular polygons						X		X	X	
436	Constructs parallel lines, perpendicular lines, squares, and rectangles						X	X			
437	Determines if an angle is a right angle, acute angle, or obtuse angle						X	X			
446	Distinguishes between similar and congruent shapes.						X				
524	Finds the area and circumference of a circle							X		X	X
558	Measures and draws angles							X			
563	Finds the diameter and radius of a circle							X			
621	Measures and draws angles with a protractor								X		
633	Determines if an angle is a right angle, acute angle, obtuse angle or straight angle.								X		
635	Identifies similar and congruent shapes.								X		
711	Finds the sum of the angles in a triangle or a polygon									X	X

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Guide ID	Description	Gr PK	Gr K	Gr 1	Gr 2	Gr 3	Gr 4	Gr 5	Gr 6	Gr 7	Gr 8
712	Creates translations, reflections and rotations using regular figures									X	
713	Determine lines of symmetry									X	
735	Use scale factor to describe the relationship between length and area.									X	
800	Finds the measurements of vertical, adjacent, supplementary, or complementary angles										X
801	Finds the missing length of a similar shape										X
802	Identifies base and corresponding altitude heights for triangles and special quadrilaterals										X
816	Finds the area of quadrilaterals and triangles.										X
817	Finds the volume of cylinders, prisms, cone, sphere, and rectangles.										X
820	Distinguish the difference between area, volume and surface area.										X
821	Use the Pythagorean Theorem to solve contextual problems.										X
Algebra											
083A	<i>Represent real-world addition (putting together), and subtraction (taking from) problems up through five with concrete objects or by acting out situations</i>	X									
083B	<i>Solve addition and subtraction problems using objects for problems up through five</i>	X									
083C	<i>Compose and decompose numbers to five by using objects or drawings (may be an extension activity after reading a book)</i>	X									
525	Solves equations using multiplication and division							X	X	X	X
526	Solves equations using addition and subtraction							X	X	X	X
527	Simplifies an expression							X			X
528	Solves addition or subtraction equations by combining like terms										X
605	Compares, adds, subtracts, multiplies and divides two integers								X	X	X
622	Applies the order of operations								X		
714	Simplify expressions using the order of operations.									X	X
715	Recognizes and uses inverse property									X	X
716	Finds the opposite of a number									X	X
717	Finds the absolute value of a number and simplifies expressions using absolute values									X	X
718	Writes inequalities using positive and negative number									X	X
720	Simplifies an expression by combining like terms									X	X
803	Estimate the square root of a whole number.										X
804	Solves two-step equations										X
805	Solves equations with variables on both sides.										X
818	Simplifies expressions using the order of operations.										X
Decimals											
332	Reads and writes decimals					X	X	X	X		

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Guide ID	Description	Gr PK	Gr K	Gr 1	Gr 2	Gr 3	Gr 4	Gr 5	Gr 6	Gr 7	Gr 8
333	Compares decimals using money.					X	X	X			
334	Add and subtract decimals using money.					X	X	X			
335	Subtracts decimals						X	X			
438	Writes a fraction or mixed number with denominators 10, 100, or 1000 as a decimal						X	X	X		
439	Writes a decimal as a fraction or a mixed number						X	X	X		
559	Multiplies a decimal by a whole number							X	X		
560	Multiplies two decimals							X	X		
561	Divides a decimal by a whole number							X	X		
562	Rounds off decimals							X			
623	Divides a whole number or a decimal by a decimal								X		
Percents											
607	Finds a percent of a number								X	X	X
608	Understands the relationship between fractions, decimals, and percents and converts accordingly								X		
636	Recognizes percentages greater than 100 and less than 1.								X		
721	Finds the percent one number is of another number									X	X
722	Finds a number if the percent of the number is known									X	X
723	Finds the percent of change between two numbers									X	X
724	Writes fractions with denominators of 100 as percent									X	
736	Finds the percent of a number.									X	
819	percents by converting accordingly.										X