## 1<sup>st</sup> Grade Math at a Glance 2015-2016

Grading Period	Unit Name	Estimated Time Frame	Start	End
	Every Day Counts	175 days	8/24	6/2
All	Problem Solving	175 days	8/24	6/2
	Number Talks	175 days	8/24	6/2
Grading	Graphing and Setting Up Guided Math	9 days	8/24	9/3
Period 1	Diagnostic Numeracy Assessment	5 days	9/4	9/11
8/24-10/16	Numeration and Addition & Subtraction 0 -10	23 days	9/14	10/16
Grading	Numeration and Addition & Subtraction 0 -20	25 days	10/19	11/20
Period 2	District Assessment (DA Blueprint)	5 days	11/30	12/4
10/19-12/18	2D Shanaa	10 days	12/7	12/18
Grading	2D Shapes	9 days	1/5	1/15
Period 3	Numeration 0-120 and Addition & Subtraction	33 days	1/19	3/4
1/5-3/11	3D Shapes	5 days	3/7	3/11
	3D Shapes	4 days	3/21	3/24
	Money	9 days	3/28	4/7
	Addition and Subtraction	10 days	4/8	4/22
Grading Period 4	District Assessment (DA Blueprint)	5 days	4/25	4/29
2/24 6/2	Addition and Subtraction	5 days	5/2	5/6
3/21-6/2	Length	10 days	5/9	5/20
	Time	5 days	5/23	5/27
	Personal Financial Literacy	3 days	5/31	6/2

\*\* Note: Also see Testing Blueprint

All Year Long	
	(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:
	(A) <b>apply</b> <u>mathematics</u> to problems arising in <u>everyday life</u> , society, and the workplace;
	(B) <b>use</b> a <u>problem-solving model</u> that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution;
Process Standards	(C) <b>select</b> <u>tools</u> , including real objects, <i>manipulatives</i> , <i>paper and pencil</i> , and <i>technology</i> as appropriate, and techniques, including <i>mental math</i> , <i>estimation</i> , and <i>number sense</i> as appropriate, <u>to solve problems</u> ;
	(D) <b>communicate</b> mathematical ideas, reasoning, and their implications using <u>multiple representations</u> , including symbols, diagrams, graphs, and language as appropriate;
	(E) <b>create</b> and <b>use</b> <u>representations</u> to organize, record, and <b>communicate</b> <u>mathematical ideas</u> ;
	(F) <b>analyze</b> mathematical <u>relationships</u> to <b>connect</b> and <b>communicate</b> <u>mathematical ideas</u> ; and
	(G) <b>display</b> , <b>explain</b> , and <b>justify</b> <u>mathematical ideas and arguments</u> using precise mathematical language in <u>written or oral communication</u> .
	(1.5A) <b>recite</b> numbers <u>forward and backward</u> from <u>any given number</u> between 1 and <b>120</b> ;
	Measurement and Geometry
EDC (Daily)	(1.7E) tell time to the hour and half hour using analog and digital clocks.
	Math Vocabulary Development.
Problem Solving (Daily)	(1.3B) <b>use</b> <u>objects and pictorial models</u> to solve word problems involving <u>joining, separating, and comparing</u> sets within <b>20</b> and unknowns as any one of the terms in the problem such as $2 + 4 = []; 3 + [] = 7;$ and $5 = [] - 3;$
	(1.3E) <b>explain</b> <u>strategies</u> used to solve <u>addition and subtraction problems</u> up to <b>20</b> using <u>spoken words</u> , <u>objects</u> , <u>pictorial models</u> , <u>and number</u>

	sentences; and (1.3F) generate and solve problem situations when given a number sentence involving addition or subtraction of numbers within 20.
Number Talks (Daily)	<ul> <li>(1.2A) recognize instantly the quantity of structured arrangements;</li> <li>(1.3C) compose 10 with two or more addends with and without concrete objects;</li> <li>(1.3D) apply basic fact strategies to add and subtract within 20, including making 10 and decomposing a number leading to a 10;</li> </ul>

Grading Period 1		
Graphing	<ul> <li>(1.8A) collect, sort, and organize data in <u>up to three categories</u> using models/representations such as <u>tally marks or T-charts;</u></li> <li>(1.8B) use data to create <u>picture and bar-type graphs;</u> and</li> </ul>	
Setting Up Guided Math	(1.8C) <b>draw</b> <u>conclusions</u> and <b>generate</b> and <b>answer</b> <u>questions</u> using information from <u>picture and bar-type graphs</u> .	
Setting Up Work Stations	Review of Kinder TEKS	
Diagnostic Numeracy Assessment	Students continue reviewing procedures and routines for workstations.	
	Counting to 10 (Quantity, Numeral, and Word Forms)	
	(1.5A) <b>recite</b> numbers <u>forward and backward</u> from <u>any given number</u> between 0 and 10;	
Numeration and Addition	(1.2D) <b>generate</b> a number that is <u>greater than or less than</u> a given whole number up to 10;	
and Subtraction 0 -10	(1.2E) use place value to <b>compare</b> whole numbers up to 10 using <u>comparative language;</u>	
	(1.2F) <b>order</b> whole numbers up to 10 <del>using place value and</del> open number lines; and	
	(1.2G) <b>represent</b> the comparison of two numbers to 10 using the symbols	

≥, <, or =.
Facts to 10 (Concrete-Pictorial-Abstract)
(1.2A) <b>recognize</b> <u>instantly the quantity</u> of <u>structured arrangements;</u> (Example: Dominos and Ten Frames)/ Chunking
(1.2B) <b>use</b> <u>concrete and pictorial models</u> to <u>compose and decompose</u> numbers up to 10 in more than one way <del>as so many hundreds, so many</del> tens, and so many ones;
(1.3C) <b>compose 10</b> with <u>two or more addends</u> with and without concrete <u>objects</u> ;
(1.3D) <b>apply</b> basic <u>fact strategies</u> to <b>add</b> and <b>subtract</b> within 10, <del>including</del> making 10 and decomposing a number leading to a 10;
(1.5G) <b>apply</b> <u>properties</u> of operations to <u>add and subtract two or three</u> <u>numbers</u> .
(1.5E) <b>understand</b> that the <u>equal sign</u> represents a relationship where expressions on each side of the equal sign represent the same value(s);
(1.5F) <b>determine</b> the <u>unknown whole number</u> in an <u>addition or subtraction</u> <u>equation</u> when the unknown may be any one of the <u>three or four terms in</u> <u>the equation</u> ; and
(1.3E) <b>explain</b> <u>strategies</u> used to solve <u>addition and subtraction</u> problems up to 10 using <u>spoken words, objects, pictorial models, and number</u> <u>sentences</u> ; and
Problem Solving to 10 (Direct Model, Counting Strategies, Use of Facts)
(1.3B) <b>use</b> <u>objects and pictorial models</u> to <b>solve</b> <u>word problems</u> involving <u>joining, separating, and comparing</u> sets within 10 and <u>unknowns as any</u> <u>one of the terms</u> in the problem such as $2 + 4 = []; 3 + [] = 7;$ and $5 = [] - 3;$
(1.5D) <b>represent</b> <u>word problems</u> involving <u>addition and subtraction</u> of whole numbers up to 10 using <u>concrete and pictorial models and number</u> <u>sentences</u> ;
(1.3F) <b>generate</b> and <b>solve</b> <u>problem situations</u> when <u>given a number</u> <u>sentence</u> involving <u>addition or subtraction</u> of numbers within 10.

Grading Period 2	
	Counting to 20 (Quantity, Numeral, and Word Forms)
	(1.5A) <b>recite</b> numbers <u>forward and backward</u> from <u>any given number</u> between 0 and 20;
	(1.5B) <b>skip count</b> by twos, <del>fives, and tens</del> to determine the total number of <b>objects</b> up to 20 in a set; (as a more efficient way of counting a set of objects than by one/ concept of group)
	Place Value to 20 (Groups of 10, Tens and Ones, 10 plus)
	(1.2A) <b>recognize</b> instantly the quantity of structured arrangements;
	(1.2B) <b>use</b> <u>concrete and pictorial models</u> to <u>compose and decompose</u> numbers up to 20 in <del>more than one way</del> as so <del>many hundreds, so</del> many tens, and so many ones;
	(1.2C) <b>use</b> <u>objects, pictures, and expanded and standard forms</u> to <b>represent</b> numbers up to 20;
Numeration and Addition	(1.2D) <b>generate</b> a number that is <u>greater than or less than</u> a given whole number up to 20;
and Subtraction 0 -20	(1.2E) <b>use</b> place value to <b>compare</b> <u>whole numbers</u> up to 20 using <u>comparative language;</u>
	(1.2F) <b>order</b> whole numbers up to 20 using place value and open number lines; and
	(1.2G) <b>represent</b> the comparison of <u>two numbers</u> to 20 using the <u>symbols</u> $\geq$ , <, or =.
	Facts to 20 (Concrete-Pictorial-Abstract)
	(1.2A) <b>recognize</b> <u>instantly the quantity</u> of <u>structured arrangements;</u> (Example: Dominos and Ten Frames)/ Chunking
	(1.2B) <b>use</b> <u>concrete and pictorial models</u> to <u>compose and decompose</u> numbers up to 20 in more than one way <del>as so many hundreds, so many</del> tens, and so many ones;
	(1.3C) <b>compose 10</b> with two or more addends with and without concrete <u>objects;</u>
	(1.3D) <b>apply</b> basic <u>fact strategies</u> to <b>add</b> and <b>subtract</b> within <b>20</b> , including

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	making 10 and decomposing a number leading to a 10;
	(1.5G) <b>apply</b> <u>properties</u> of operations to <u>add and subtract two or three</u> <u>numbers</u> .
	(1.5E) <b>understand</b> that the <u>equal sign</u> represents a relationship where expressions on each side of the equal sign represent the same value(s);
	(1.5F) <b>determine</b> the <u>unknown whole number</u> in an <u>addition or subtraction</u> <u>equation</u> when the unknown may be any one of the <u>three or four terms in</u> <u>the equation</u> ; and
	(1.3E) <b>explain</b> <u>strategies</u> used to solve <u>addition and subtraction</u> problems up to <b>20</b> using <u>spoken words</u> , <u>objects</u> , <u>pictorial models</u> , <u>and number</u> <u>sentences</u> ; and
	Problem Solving to 20 (Direct Model, Counting Strategies, Use of Facts)
	(1.3B) <b>use</b> <u>objects and pictorial models</u> to <b>solve</b> <u>word problems</u> involving joining, separating, and comparing sets within <b>20</b> and <u>unknowns as any</u> <u>one of the terms</u> in the problem such as $2 + 4 = []; 3 + [] = 7;$ and $5 = [] - 3;$
	(1.5D) <b>represent</b> word problems involving addition and subtraction of whole numbers up to <b>20</b> using concrete and pictorial models and number sentences;
	(1.3F) <b>generate</b> and <b>solve</b> <u>problem situations</u> when <u>given a number</u> <u>sentence</u> involving <u>addition or subtraction</u> of numbers within <b>20</b> .
	(1.8A) <b>collect</b> , <b>sort</b> , and <b>organize</b> data in <u>up to three categories</u> using models/representations such as <u>tally marks or T-charts</u> ;
	(1.8B) <b>use</b> data to <b>create</b> <u>picture and bar-type graphs</u> ; and
	(1.8C) <b>draw</b> <u>conclusions</u> and <b>generate</b> and <b>answer</b> <u>questions</u> using information from <u>picture and bar-type graphs</u> .
DA Assessment	
	(1.6A) <b>classify</b> and <b>sort</b> <u>regular and irregular two-dimensional</u> shapes based on attributes using informal <u>geometric language</u> ;
Geometry 2-Dimensional Shapes	(1.6B) <b>distinguish</b> between <u>attributes</u> that <u>define</u> a two-dimensional or <del>three-dimensional</del> figure and <u>attributes</u> that <u>do not define</u> the shape;
	(1.6C) <b>create</b> two-dimensional figures, including <u>circles, triangles,</u>

rectangles, and squares, as special rectangles, rhombuses, and hexagons;
(1.6D) <b>identify</b> two-dimensional shapes, including <u>circles, triangles,</u> <u>rectangles, and squares, as special rectangles, rhombuses, and hexagons</u> and <b>describe</b> their attributes using formal <u>geometric language</u> ;
(1.6F) <b>compose</b> two-dimensional shapes by joining two, three, or four figures to produce a target shape in more than one way if possible;

Grading Period 3		
Geometry 2-Dimensional Shapes	(1.6F) <b>compose</b> two-dimensional shapes by joining two, three, or four figures to produce a target shape in more than one way if possible;	
	Fractions:	
	(1.6G) <b>partition</b> two-dimensional figures into two and four <u>fair shares or</u> <u>equal parts</u> and <b>describe</b> the <u>parts using words</u> ; and	
	(1.6H) <b>identify</b> examples and non-examples of <u>halves and fourths</u> .	
	Counting to 120 (Quantity, Numeral, and Word Forms)	
	(1.5A) <b>recite</b> numbers <u>forward and backward</u> from <u>any given number</u> between 0 and <b>120</b> ;	
	(1.5B) <b>skip count</b> by twos, fives, and tens to determine the total number of <b>objects</b> up to <b>120</b> in a set; (as a more efficient way of counting a set of objects than by one/ concept of group)	
Numeration 0-120 and	(1.5C) <b>use</b> <u>relationships</u> to <b>determine</b> the <u>number that is 10 more and 10</u> <u>less</u> than a <u>given number</u> up to 120;	
Addition and Subtraction of multiples of 10 and 1's	Place Value to 120 (Groups of 10, Tens and Ones, 10 plus)	
	(1.2A) recognize instantly the quantity of structured arrangements;	
	(1.2B) <b>use</b> <u>concrete and pictorial models</u> to <u>compose and decompose</u> numbers up to <b>120</b> in <u>more than one way as so many hundreds, so many</u> <u>tens, and so many ones;</u>	
	(1.2C) <b>use</b> <u>objects</u> , <u>pictures</u> , <u>and expanded and standard forms</u> to <b>represent</b> numbers up to <b>120</b> ;	
	(1.3A) use concrete and pictorial models to determine the sum of a	

multiple of 10 and a one-digit number in problems up to <b>99</b> ;
(1.5C) use <u>relationships</u> to determine the <u>number that is 10 more and 10</u> <u>less</u> than a <u>given number</u> up to <b>120</b> ;
(1.2D) <b>generate</b> a number that is <u>greater than or less than</u> a given whole number up to <b>120</b> ;
(1.2E) <b>use</b> place value to <b>compare</b> <u>whole numbers</u> up to <b>120</b> using <u>comparative language;</u>
(1.2F) <b>order</b> whole numbers up to <b>120</b> using place value and open number lines; and
(1.2G) <b>represent</b> the comparison of <u>two numbers</u> to <b>100</b> using the <u>symbols &gt;, &lt;, or =.</u>
Facts to 20 (Concrete-Pictorial-Abstract)
(1.2A) <b>recognize</b> instantly the quantity of structured arrangements; (Example: Dominos and Ten Frames)/ Chunking
(1.2B) <b>use</b> <u>concrete and pictorial models</u> to <u>compose and decompose</u> numbers up to 20 in more than one way <del>as so many hundreds, so many</del> tens, and so many ones;
(1.3C) <b>compose 10</b> with two or more addends with and without concrete objects;
(1.3D) <b>apply</b> basic <u>fact strategies</u> to <b>add</b> and <b>subtract</b> within <b>20</b> , including making 10 and decomposing a number leading to a 10;
(1.5G) <b>apply</b> properties of operations to add and subtract two or three <u>numbers</u> .
(1.5E) <b>understand</b> that the <u>equal sign</u> represents a relationship where expressions on each side of the equal sign represent the same value(s);
(1.5F) <b>determine</b> the <u>unknown whole number</u> in an <u>addition or subtraction</u> <u>equation</u> when the unknown may be any one of the <u>three or four terms in</u> <u>the equation</u> ; and
(1.3E) <b>explain</b> <u>strategies</u> used to solve <u>addition and subtraction</u> problems up to <b>20</b> using <u>spoken words</u> , <u>objects</u> , <u>pictorial models</u> , <u>and number</u> <u>sentences</u> ; and

	Problem Solving to 20 (Direct Model, Counting Strategies, Use of Facts)
	(1.3B) <b>use</b> <u>objects and pictorial models</u> to <b>solve</b> <u>word problems</u> involving <u>joining, separating, and comparing</u> sets within <b>20</b> and <u>unknowns as any</u> <u>one of the terms</u> in the problem such as $2 + 4 = []; 3 + [] = 7;$ and $5 = [] - 3;$
	(1.5D) <b>represent</b> word problems involving addition and subtraction of whole numbers up to <b>20</b> using concrete and pictorial models and number sentences:
	(1.3F) <b>generate</b> and <b>solve</b> <u>problem situations</u> when <u>given a number</u> <u>sentence</u> involving <u>addition or subtraction</u> of numbers within <b>20</b> .
	(1.8A) <b>collect</b> , <b>sort</b> , and <b>organize</b> data in <u>up to three categories</u> using models/representations such as <u>tally marks or T-charts</u> ;
	(1.8B) use data to create picture and bar-type graphs; and
	(1.8C) <b>draw</b> <u>conclusions</u> and <b>generate</b> and <b>answer</b> <u>questions</u> using information from <u>picture and bar-type graphs</u> .
	(1.6B) <b>distinguish</b> between <u>attributes</u> that <u>define</u> a <del>two-dimensional</del> or three-dimensional figure <u>and attributes</u> that <u>do not define</u> the shape;
Geometry 3-Dimensional Figures (4 days in Grading Period 4)	(1.6E) <b>identify</b> three-dimensional solids, including <u>spheres, cones,</u> <u>cylinders, rectangular prisms (including cubes), and triangular prisms</u> , and describe their attributes using formal <u>geometric language</u> ;

Grading Period 4	
	(1.4A) <b>identify</b> U.S. coins, including <u>pennies, nickels, dimes, and quarters</u> , by <u>value</u> and describe the <u>relationships among them</u> ;
	(1.4B) <b>write</b> a number with the <u>cent symbol</u> to describe the value of a coin; and
Money	(1.4C) <b>use</b> <u>relationships</u> to <u>count by twos, fives, and tens</u> to determine the value of a <u>collection of pennies, nickels, and/or dimes</u> .
	(1.9A) <b>define</b> money earned as <u>income</u> ;
	(1.9B) <b>identify</b> income as a means of obtaining goods and services, oftentimes making choices between wants and needs;

	(1.9C) distinguish between spending and saving
Addition and Subtraction	Facts to 20 (Concrete-Pictorial-Abstract)
	<ul> <li>(1.2A) recognize instantly the quantity of structured arrangements;</li> <li>(Example: Dominos and Ten Frames)/ Chunking</li> </ul>
	(1.2B) <b>use</b> <u>concrete and pictorial models</u> to <u>compose and decompose</u> numbers up to 20 in more than one way <del>as so many hundreds, so many</del> tens, and so many ones;
	(1.3C) <b>compose 10</b> with two or more addends with and without concrete objects;
	(1.3D) <b>apply</b> basic <u>fact strategies</u> to <b>add</b> and <b>subtract</b> within <b>20</b> , including making 10 and decomposing a number leading to a 10;
	(1.5G) <b>apply</b> <u>properties</u> of operations to <u>add and subtract two or three</u> <u>numbers</u> .
	(1.5E) <b>understand</b> that the <u>equal sign</u> represents a relationship where expressions on each side of the equal sign represent the same value(s);
	(1.5F) <b>determine</b> the <u>unknown whole number</u> in an <u>addition or subtraction</u> <u>equation</u> when the unknown may be any one of the <u>three or four terms in</u> <u>the equation</u> ; and
	(1.3E) <b>explain</b> <u>strategies</u> used to solve <u>addition and subtraction</u> problems up to <b>20</b> using <u>spoken words, objects, pictorial models, and number</u> <u>sentences</u> ; and
	Problem Solving to 20 (Direct Model, Counting Strategies, Use of Facts)
	(1.3B) <b>use</b> <u>objects and pictorial models</u> to <b>solve</b> <u>word problems</u> involving <u>joining, separating, and comparing</u> sets within <b>20</b> and <u>unknowns as any</u> <u>one of the terms</u> in the problem such as $2 + 4 = []; 3 + [] = 7;$ and $5 = [] - 3;$
	(1.5D) <b>represent</b> <u>word problems</u> involving <u>addition and subtraction</u> of whole numbers up to <b>20</b> using <u>concrete and pictorial models and number</u> <u>sentences;</u>
	(1.3F) <b>generate</b> and <b>solve</b> <u>problem situations</u> when <u>given a number</u> <u>sentence</u> involving <u>addition or subtraction</u> of numbers within <b>20</b> .
	(1.8A) collect, sort, and organize data in up to three categories using

	models/representations such as tally marks or T-charts;
	(1.8B) <b>use</b> data to <b>create</b> <u>picture and bar-type graphs</u> ; and
	(1.8C) <b>draw</b> <u>conclusions</u> and <b>generate</b> and <b>answer</b> <u>questions</u> using information from <u>picture and bar-type graphs</u> .
Measurement – Length	(1.7A) <b>use</b> measuring <u>tools to measure</u> the <u>length</u> of objects to reinforce the continuous nature of linear measurement;
	(1.7B) <b>illustrate</b> that the <u>length</u> of an object is the number of same-size units of length that, when laid end-to-end with no gaps or overlaps, reach from one end of the object to the other;
	(1.7C) <b>measure</b> the <u>same object/distance</u> with units of <u>two different</u> <u>lengths</u> and <b>describe</b> <u>how and why</u> the measurements <u>differ</u> ;
	(1.7D) <b>describe</b> a <u>length</u> to the <u>nearest whole</u> unit using a number and a unit; and
Measurement – Time	(1.7E) tell time to the hour and half hour using analog and digital clocks.
Personal Financial Literacy	(1.9A) <b>define</b> money earned as <u>income</u> ;
	(1.9B) identify income as a means of <u>obtaining goods and services</u> , oftentimes making <u>choices</u> between <u>wants and needs</u> ;
	(1.9C) distinguish between spending and saving; and
	(1.9D) <b>consider</b> <u>charitable giving</u> .