3RD GRADE MATH-COMMON CORE PACING GUIDE 1ST 9 WEEKS

	2013-2014		
Standard	I Can Statements	Date Taught	Assessment
DOMAIN:	* Indicates which 9 weeks the standard		
Operations and	will be tested.		
Algebraic Thinking	win be tested.		
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(OA) 3.0A.1.			
Interpret products of whole numbers, e.g., interpret 5×7 as the total number of objects in 5 groups of 7 objects each.	I can multiply to find the product. (1*) I can show products using equal groups, arrays, and repeated addition. (1*)		
For example, describe a context in which a total number of objects can be expressed as 5 × 7.	(This standard will be taught in TOPIC # 4.)		
3.OA.3. Use multiplication and division within 100 to	I can multiply to solve word problems. (1*, 2* 3*,4)		
solve word problems in situations involving equal	I can divide to solve word problems. (1*, 2*, 3*, 4)		
groups, arrays, and measurement quantities, e.g., by using drawings	I can decide when to multiply or divide to solve word problems. (1*, 2*, 3*, 4)		
and equations with a symbol for the unknown number to represent the problem. ¹ ¹ See Glossary, Table 2.	(This standard will be taught in TOPIC # 4.)		
3.OA.5 . Apply properties of operations as strategies to multiply and divide. ² <i>Examples:</i> If $6 \times 4 = 24$ is known, then $4 \times 6 = 24$ is also known. (Commutative property of multiplication.) $3 \times 5 \times 2$	I can use the properties of multiplication and division to solve problems. (1,*2*,3, 4) I can explain the commutative property of multiplication. (1*,2*,3, 4) I can explain the associative property of multiplication.		
can be found by $3 \times 5 =$ 15, then $15 \times 2 = 30$, or by $5 \times 2 = 10$, then 3×10 = 30. (Associative property of multiplication.) Knowing that $8 \times 5 = 40$ and $8 \times 2 = 16$, one can find 8×7 as $8 \times (5 + 2) =$ $(8 \times 5) + (8 \times 2) = 40 + 16$ = 56. (Distributive	(1*,2*,3, 4) I can explain the distributive property of multiplication. (1*,2*,3, 4)		
<i>property.</i>) ² Students need not use formal terms for these properties.	(This standard will be taught in TOPIC # 4.)		

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<u>3.OA.7.</u> Fluently multiply and divide within 100, using	I can memorize all products within 100. (1*,2*,3*,4*)		
strategies such as the relationship between	I can use strategies to solve multiplication problems. (1*,2*,3*,4*)		
multiplication and division (e.g., knowing that 8	I can use strategies to solve division problems. (1*,2*,3*,4*)		
$x 5 = 40$, one knows $40 \div 5 = 8$) or properties of operations. By the end of grade 3, know from memory all products of	(By the end of Grade 3, know from memory all products of one-digit numbers.)		
two one-digit numbers.	(This standard will be taught in TOPIC # 5.)		
	(This standard must be REVIEWED EVERY 9 WEEKS.)		
3.OA.8. Solve two-step word problems using the four operations. Represent	I can identify the order of operations of a problem. (1*,2*,3*,4*)		
these problems using equations with a letter standing for the unknown	I can identify different strategies for estimating. (1*,2*,3*,4*)		
quantity. Assess the reasonableness of answers using mental computation and	I can construct an equation with a letter standing for the unknown quality. (1*,2*,3*,4*)		
estimation strategies including rounding. ³	I can solve two-step word problems using the four operations. (1*,2*,3*,4*)		
	I can justify my answer using estimation strategies and mental computation. (1*,2*,3*,4*)		
	(This standard will be taught in TOPIC # 2, 3, & 5.)		
	(This standard must be REVIEWED EVERY 9 WEEKS.)		
3.OA.9. Identify arithmetic	I can identify patterns. (1*, 2*,3*,4*)		
patterns (including patterns in the addition table or multiplication	I can explain rules for a pattern using properties of operations. (1*, 2*,3*,4*)		
table), and explain them using properties of operations. <i>For example,</i>	I can explain relationships between the numbers in a pattern. (1*, 2*,3*,4*)		
observe that 4 times a number is always even, and explain why 4 times a	(This standard will be taught in TOPIC # 2, 4 & 5.)		
number can be decomposed into two equal addends.	(This standard must be REVIEWED EVERY 9 WEEKS.)		
<u> </u>			

DOMAIN:		
Numbers and		
Operations in Base		
Ten (NBT)		
3.NBT.1.		
Use place value	I can define "round or rounding" based on place value. (1*)	
understanding to round		
whole numbers to the nearest 10 or 100. ⁴	I can round a whole number to the nearest 10. (1*)	
4 A range of algorithms may be used	I can round a whole number to the nearest 100. (1*)	
	(This standard will be taught in TOPIC # 1, 2, & 3.)	
<u>3.NBT.2.</u>	I can identify strategies for adding within 1000. (1*, 2*, 3*, 4*)	
Fluently add and subtract within 1,000 using	$(1^{*}, 2^{*}, 3^{*}, 4^{*})$	
strategies and algorithms	I can identify strategies for subtracting within 1000. (1*, 2*,	
based on place value,	3*, 4*)	
properties of operations, and/or the relationship	I can fluently add within 1000. (1*,2, 3, 4*)	
between addition and	1 can muchtry add within 1000. (1 ,2, 3, 4)	
subtraction. ⁴	I can fluently subtract within 1000. (1*,2, 3, 4*)	
4 Range of algorithms may be used	(This standard will be taught in TODIC #1.2.8.2)	
	(This standard will be taught in TOPIC # 1, 2, & 3.)	
	(This standard must be REVIEWED EVERY 9 WEEKS.)	
3.NBT.3.		
Multiply one-digit whole	I can identify strategies to multiply one-digit numbers by	
numbers by multiples of	multiples of 10. (1*,2*,3,4)	
10 in the range 10–90 (e.g., 9 × 80, 5 × 60)		
using strategies based on	I can use knowledge of place value to multiply one-digit	
place value and	whole numbers by multiples of 10 . (1*,2*,3,4)	
properties of operations. ⁴ 4 A range of algorithms may be used		
³ This standard is limited to problems posed with whole		
numbers and having whole- number answers; students		
should know how to perform		
operations in the conventional order when there are no		
parentheses to specify a		
particular order (Order of Operations).	(This standard will be taught in TOPIC # 5.)	
⁴ A range of algorithms may be used.		
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3RD GRADE MATH-COMMON CORE PACING GUIDE 2ND 9 WEEKS

Standard	I Can Statements	Date Taught	Assessment		
DOMAIN:	* Indicates which 9 weeks the standard				
Operations and	will be tested.				
Algebraic Thinking					
(OA)					
<u>3.0A.2.</u>					
Interpret whole-number	I can find the quotient of whole numbers using equal groups.				
quotients of whole	(2*)				
numbers, e.g., interpret 56 ÷ 8 as the number of	Lean tall what the number in a division problem means				
objects in each share	I can tell what the number in a division problem means. (2*)				
when 56 objects are					
partitioned equally into 8	I can explain what division means.				
shares, or as a number of	(2*)				
shares when 56 objects					
are partitioned into equal	I can show division as equal sharing.				
shares of 8 objects each.	(2*)				
For example, describe a					
context in which a number	(This standard will be taught in TOPIC #7.)				
of shares or a number of					
groups can be expressed					
as 56 ÷ 8.					
<u>3.0A.3.</u>	I can multiply to solve word problems. (1*, 2* 3*,4)				
Use multiplication and	Lean divide to solve word problems (1* 2* 2* 1)				
division within 100 to	I can divide to solve word problems. $(1^*, 2^*, 3^*, 4)$				
solve word problems in situations involving equal	I can decide when to multiply or divide to solve word				
groups, arrays, and	problems. $(1^*, 2^*, 3^*, 4)$				
measurement quantities,					
e.g., by using drawings					
and equations with a	(This standard will be taught in TOPICS 6, 7 & 8.)				
symbol for the unknown					
number to represent the					
problem ¹¹ See Glossary,					
Table 2					
<u>3.0A.4.</u>	I can find the missing number in a multiplication				
Determine the unknown	problem. (2*)				
whole number in a					
multiplication or division equation relating three	I can find the missing number in a division problem.				
whole numbers. For	(2*)				
example, determine the					
unknown number that	(This standard will be taught in TODICS 7 8 9)				
makes the equation true	(This standard will be taught in TOPICS 7 & 8.)				
in each of the equations 8					
$x ? = 48, 5 = ? \div 3,$					
6 × 6 = ?.					

<u>3.OA.5.</u> Apply properties of operations as strategies	I can use the properties of multiplication and division to solve problems. (1,*2*,3, 4)	
to multiply and divide. ² Examples: If $6 \times 4 = 24$ is known, then $4 \times 6 = 24$ is also known.	I can explain the commutative property of multiplication. (1*,2*,3, 4)	
(Commutative property of multiplication.) $3 \times 5 \times 2$	I can explain the associative property of multiplication. (1*,2*,3, 4)	
can be found by $3 \times 5 =$ 15, then $15 \times 2 = 30$, or by $5 \times 2 = 10$, then 3×10 = 30. (Associative	I can explain the distributive property of multiplication. (1*,2*,3, 4)	
property of multiplication.)		
Knowing that $8 \times 5 = 40$ and $8 \times 2 = 16$, one can find 8×7 as $8 \times (5 + 2) =$	(This standard will be taught in TOPICS 6 & 8.)	
(8 × 5) + (8 × 2) = 40 + 16 = 56. (Distributive property.)		
3.OA.6.		
Understand division as an unknown-factor problem. For example, find $32 \div 8$	I can identify the multiplication problem related to the division problem. $(2^*, 3^*, 4)$	
by finding the number that makes 32 when multiplied by 8.	I can use multiplication to solve division problems. (2*,3*,4)	
	I can recognize and explain the relationship between multiplication and division. $(2^*, 3^*, 4)$	
	(This standard will be taught in TOPIC 7.)	
<u>3.0A.7.</u>	I can memorize all products within 100. (1*,2*,3*,4*)	
Fluently multiply and divide within 100, using strategies such as the	I can use strategies to solve multiplication problems. (1*,2*,3*,4*)	
relationship between multiplication and division (e.g., knowing that 8	I can use strategies to solve division problems. (1*,2*,3*,4*)	
$x 5 = 40$, one knows $40 \div 5 = 8$) or properties of operations. By the end of	(By the end of Grade 3, know from memory all products of one-digit numbers.)	
grade 3, know from memory all products of two one-digit numbers.	(This standard will be taught in TOPIC 8.)	
² Students need not use formal terms for these properties.	(This standard must be REVIEWED EVERY 9 WEEKS.)	

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3.OA.8 . Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. ³	I can identify the order of operations of a problem. (1*,2*,3*,4*) I can identify different strategies for estimating. (1*,2*,3*,4*) I can construct an equation with a letter standing for the unknown quality. (1*,2*,3*,4*) I can solve two-step word problems using the four operations. (1*,2*,3*,4*) I can justify my answer using estimation strategies and mental computation. (1*,2*,3*,4*) (This standard will be taught in TOPIC 8.) (This standard must be REVIEWED EVERY 9	
	WEEKS.)	
3.OA.9. Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that 4 times a number is always even, and explain why 4 times a number can be decomposed into two equal addends. DOMAIN: Numbers and Operations-Fractions (NF)	I can identify patterns. (1*, 2*,3*,4*) I can explain rules for a pattern using properties of operations. (1*, 2*,3*,4*) I can explain relationships between the numbers in a pattern. (1*, 2*,3*,4*) (This standard will be taught in Topic 7.) (This standard must be REVIEWED EVERY 9 WEEKS.)	
3.NF.1. Understand a fraction $1/b$ as the quantity formed by 1 part when a whole is partitioned into <i>b</i> equal parts; understand a fraction a/b as the quantity formed by <i>a</i> parts of size $1/b$. ⁵ 5 Gr. 3 expectations in this domain are limited to fractions with denominators 2,3,4,6, and 8	I can define a unit fraction. (2*, 3*,4) I can recognize a unit fraction as part of a whole. (2*, 3*,4) I can identify and explain the parts of a written fraction. (2*, 3*,4) I can compare fractions using equal to, less than, and greater than one. (2*, 3*,4)	

	(This standard will be taught in TOPIC 9.)	
<u>3.NF.2.</u>		
Understand a fraction as a number on the number line; represent fractions on a number line diagram. ⁵	I can define the interval from 0 to 1 on a number line as the whole number. (2*,3*,4)	
<u>a.</u> Represent a fraction 1/b on a number line diagram by defining the interval from 0	I can divide a whole on a number line into equal parts. (2*,3*,4)	
to 1 as the whole and partitioning it into <i>b</i> equal parts. Recognize that each	I can recognize that the equal parts between 0 and 1 stand for a fraction. (2*,3*,4)	
part has size 1/b and that the endpoint of the part based at 0 locates the number 1/b on the number	I can represent each equal part on a number line with a fraction. (2*,3*,4)	
line. <u>b.</u> Represent a fraction <i>a/b</i> on a number line diagram by marking off <i>a</i> lengths 1/ <i>b</i> from 0. Recenting that the	I can explain the endpoint of each equal part represents the total number of equal parts. (2*,3*,4)	
from 0. Recognize that the resulting interval has size <i>a/b</i> and that its endpoint locates the number <i>a/b</i> on the number line.	(This standard will be taught in TOPIC 9.)	
DOMAIN:		
Measurement and		
Data (MD)		
3.MD.7. c. Use tiling to show in a concrete case that the	I can use an array to multiply. (2*, 3*, 4)	
area of a rectangle with whole-number side lengths a and $b + c$ is the sum of $a \times b$ and $a \times c$.	I can find the area of a rectangle by modeling the distributive property using multiplication and addition. $(2^*, 3^*, 4)$	
Use area models to represent the distributive property in mathematical reasoning.	I can use tiling to find the area of rectangles using the distributive property. $(2^*, 3^*, 4)$	
	(This standard will be taught in TOPIC 6.)	
3.MD.8. Solve real-world and mathematical problems	I can define a polygon. (2 *, 3 *, 4 *)	
involving perimeters of polygons, including	I can define perimeter. (2*, 3*, 4*)	
finding the perimeter given the side lengths, finding an unknown side length, and exhibiting	I can find the perimeter when given the length of sides. (2*, 3*, 4*)	
rectangles with the same perimeter and different areas or with the same	I can find the perimeter when there is an unknown side length. (2*, 3*, 4*)	
area and different perimeters.	I can create rectangles with the same perimeter and different areas. (2*, 3*, 4*)	

	I can create rectangles with the same area and different perimeters. (2*, 3*, 4*)	
	(This standard will be taught in TOPIC 6.)	
DOMAIN:		
Numbers and		
Operations in Base		
Ten (NBT)		
<u>3.NBT.2.</u>		
Fluently add and subtract within 1,000 using	I can identify strategies for adding within 1000. (1*, 2*, 3*, 4*)	
strategies and algorithms based on place value, properties of operations,	I can identify strategies for subtracting within 1000. (1*, 2*, 3*, 4*)	
and/or the relationship between addition and	I can fluently add within 1000. (1*,2, 3, 4*)	
Subtraction. ⁴ 4 Range of algorithms may be used	I can fluently subtract within 1000. (1*,2, 3, 4*)	
	(This standard will be taught in TOPIC # 1, 2, & 3.)	
	(This standard MUST BE TAUGHT EVERY 9 WEEKS.)	

3RD GRADE MATH-COMMON CORE PACING GUIDE 3RD 9 WEEKS

Standard	I Can Statements	Date Taught	Assessment
DOMAIN:	* Indicates which 9 weeks the standard		
Numbers and	will be tested.		
Operations-			
Fractions(NF)			
3.NF.2.	I can define the interval from 0 to 1 on a number line as		
Understand a fraction as a number on the number line;	the whole number. (3*,4*)		
represent fractions on a	I can divide a whole on a number line into equal parts.		
number line diagram. ⁵	(,3*,4*)		
<u>a.</u> Represent a fraction 1/b on a number line diagram by			
defining the interval from 0	I can recognize that the equal parts between 0 and 1 stand		
to 1 as the whole and	for a fraction. (3*,4*)		
partitioning it into <i>b</i> equal			
parts. Recognize that each part has size 1/b and that	I can represent each equal part on a number line with a		
the endpoint of the part	fraction. (3* , 4 *)		
based at 0 locates the			
number 1/ <i>b</i> on the number line.			
b. Represent a fraction a/b	0 1/4 2/4 3/4 4/4		
on a number line diagram by			
marking off <i>a</i> lengths 1/ <i>b</i>	(This standard will be taught in TOPIC 10.)		
from 0. Recognize that the resulting interval has size			
a/b and that its endpoint			
locates the number a/b on			
the number line.			
<u>3.NF.3.</u>	I can describe equivalent fractions. (3*, 4*)		
Explain equivalence of fractions in special cases,	r can describe equivalent fractions. (5°, 4°)		
and compare fractions by	I can recognize simple equivalent fractions. (3*, 4*)		
reasoning about their			
size. ⁵	I can compare fractions by their size to determine equivalence.		
 Understand two 	(3*, 4*)		
fractions as equivalent	The second section of the second function and the starts		
(equal) if they are the	I can use number lines, size, visual fraction models, etc. to find equivalent fractions. $(3^*, 4^*)$		
same size, or the same point on a number line.			
b. Recognize and	I can recognize whole numbers written in fractional parts on a		
generate simple	number line. (3 *, 4 *)		
equivalent fractions, e.g.,			
1/2 = 2/4, 4/6 = 2/3).	I can recognize the difference in a whole number and a		
Explain why the fractions	fraction. (3 *, 4 *)		
are equivalent, e.g., by	I can express whole numbers as fractions. (3*, 4*)		
using a visual fraction model.	r can express whole numbers as fractions. (5, r)		
c. Express whole	I can explain how a fraction is equivalent to a whole number.		
numbers as fractions, and	(3*, 4*)		
recognize fractions that			
are equivalent to whole	I can explain what a numerator means. $(3^*, 4^*)$		

numbers. Examples:	I can explain what a denominator means. (3*, 4*)	
Express 3 in the form		
3 = 3/1; recognize that $6/1$	I can recognize whether fractions refer to the same whole.	
= 6; locate 4/4 and 1 at	I can decide if comparison of fractions can be made (if they	
the same point of a	refer to the same whole). (3*, 4*)	
number line diagram.		
d. Compare two fractions	I can explain why fractions are equivalent. (3*, 4*)	
with the same numerator		
or the same denominator	I can compare two fractions with the same numerator by	
by reasoning about their	reasoning about their size. (3*, 4*)	
size. Recognize that		
comparisons are valid	I can compare two fractions with the same denominator by	
only when the two	reasoning about their size. (3*, 4*)	
fractions refer to the		
same whole. Record the	I can record the results of comparisons using symbols >, <, =	
results of comparisons	(3*, 4*)	
with the symbols		
>, =, or <, and justify the		
conclusions, e.g., by		
using a visual fraction	(This standard will be taught in TOPIC 10.)	
5 Gr 3 Expectations in this domain are		
limited to fractions with denominators		
2,3,4,6, and 8		
DOMAIN:		
Measurement and		
Data (MD)		
<u>3.MD.1.</u>		
Tell and write time to the	I can recognize minute marks on an analog clock face	
nearest minute, and	and minute position on a digital clock face. $(3^*, 4^*)$	
measure time intervals in		
minutes. Solve word	I can tell and write time to the nearest minute. $(3^*, 4^*)$	
problems involving		
addition and subtraction	I can compare an analog clock face with a number line.	
of time intervals in	$(3^*, 4^*)$	
minutes, e.g., by	(3,4)	
representing the problem	Lean use a number line to add and subtract time (2* 4*)	
on a number line	I can use a number line to add and subtract time. $(3^*, 4^*)$	
diagram.		
	I can solve word problems related to adding and	
	subtracting minutes. (3*, 4*)	
	(This standard will be taught in TOPIC 12.)	
3.MD.5.	I can define "unit square." (3*, 4*)	
Recognize area as an		
attribute of plane figures,	I can define area. (3*, 4 *)	
and understand concepts of		
area measurement.	I can find the area of a plane figure using unit squares. (3*,	
a. A square with side length	4 *)	
1 unit, called "a unit square,"	• ,	
is said to have "one square unit" of area, and can be	I can cover the area of a plane figure with unit squares without	
used to measure area.	gaps or overlaps. (3*, 4*)	
b. A plane figure which can	Super or overlapper (e , T)	
be covered without gaps or	(This standard will be taught in TOPIC 14.)	
overlaps by <i>n</i> unit squares is said to have an area of <i>n</i>		
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square units.			
square units.			
<u>3.MD.6.</u>			
Measure areas by	I can measure areas by counting unit squares.		
counting unit squares	I can use unit squares of cm, m, in, ft, and other sizes of unit		
(square cm, square m,	squares to measure area.		
square in, square ft, and	squares to measure area.		
improvised units).	(This standard will be taught in TOPIC 14.)		
<u>3.MD.7</u> .			
Relate area to the			
operations of	I can find the area of a rectangle by tiling it in unit squares. $(2^*, 4^*)$		
multiplication and	(3*, 4*) I can find the side lengths of a rectangle in units. (3*, 4*)		
addition. a. Find the area of a rectangle with whole-	T can find the side lengths of a rectangle in units. (3*, 4*)		
number side lengths by	I can compare the area found by tiling a rectangle to the area		
tiling it, and show that the	found by multiplying the side lengths. $(3^*, 4^*)$		
area is the same as			
would be found by	I can multiply side lengths to find areas of rectangles. (3*, 4*)		
multiplying the side	1		
lengths.	I can solve real world problems using area. (3*, 4*)		
b. Multiply side lengths to	I can use arrays to represent multiplication problems. (3*, 4*)		
find areas of rectangles			
with whole-number side	I can use an array to multiply. (2*, 3*, 4*)		
lengths in the context of			
solving real-world and	I can find the area of a rectangle by modeling the distributive		
mathematical problems,	property using multiplication and addition. (2*, 3*, 4*)		
and represent whole-	I can use tiling to find the area of rectangles using the		
number products as	distributive property. $(2^*, 3^*, 4^*)$		
rectangular areas in mathematical reasoning.			
mathematical reaconing.	I can find areas of rectangles. (3*, 4*)		
c. Use tiling to show in a			
concrete case that the	I can add area of rectangles. (3*, 4*)		
area of a rectangle with	I can recognize the areas of each rectangle in a rectilinear		
whole-number side	(straight line) figure can be added together to find the area of		
lengths a and $b + c$ is the sum of $a \times b$ and $a \times c$.	the figure. (3*, 4*)		
Use area models to			
represent the distributive	I can separate a polygon into rectangles to find the area of		
property in mathematical	each rectangle to solve real world problems. (3*, 4*)		
reasoning.	I can separate polygons into non-overlapping rectangles.		
	(3*, 4*)		
d. Recognize area as			
additive. Find areas of			
rectilinear figures by decomposing them into			
non-overlapping	(This standard will be taught in TOPIC 14.)		
rectangles and adding the			
areas of the non-			
overlapping parts,			
applying this technique to			
solve real-world problems.			
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3.MD.8. Solve real-world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.	 I can define a polygon. (2*, 3*, 4*) I can define perimeter. (2*, 3*, 4*) I can find the perimeter when given the length of sides. (2*, 3*, 4*) I can find the perimeter when there is an unknown side length. (2*, 3*, 4*) I can create rectangles with the same perimeter and different areas. (2*, 3*, 4*) I can create rectangles with the same area and different perimeters. (2*, 3*, 4*) I can create rectangles with the same area and different perimeters. (2*, 3*, 4*) 	
DOMAIN:		
Geometry (G)		
3.G.1. Understand that shapes in different categories (e.g., rhombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.	I can identify and define two-dimensional shapes based on their attributes. (3 *) I can identify rhombuses, rectangles, and squares as quadrilaterals. (3 *) I can define attributes. (3 *) I can describe, analyze, and compare properties of two- dimensional shapes. (3 *) I can compare and classify shapes by attributes. (3 *) I can group shapes with shared attributes. (3 *) I can draw examples that are and are not quadrilaterals. (3 *) (This standard will be taught in TOPIC 11.)	
3.G.2. Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole. For example, partition a shape into 4 parts with equal area, and describe the area of each part as 1/4 of the area of the shape.	I can divide shapes into equal parts. (3 *) I can describe the area of each part as a fractional part of the whole. (3 *) I can divide a shape into parts with equal areas and describe the area of each part as a unit fraction of the whole. (3 *) (This standard will be taught in TOPIC 12.)	

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DOMAIN:		
Operations and		
Algebraic Thinking		
(OA)		
3.OA.7.		
Fluently multiply and divide within 100, using strategies	I can memorize all products within 100. (1*,2*,3*,4*)	
such as the relationship between multiplication and	I can use strategies to solve multiplication problems. (1*,2*,3*,4*)	
division (e.g., knowing that	I can use strategies to solve division problems. (1*,2*,3*,4*)	
$x 5 = 40$, one knows $40 \div 5$ = 8) or properties of		
operations. By the end of grade 3, know from	(By the end of Grade 3, know from memory all products of one-digit numbers.)	
memory all products of two one-digit numbers.	(This standard will be taught in TOPIC # 5.)	
	(This standard was taught in OTHER TOPICS, BUT MUST BE REVIEWED EVERY NINE WEEKS.)	
<u>3.0A.8.</u> Solve two-step word problems using the four operations. Represent	I can identify the order of operations of a problem. (1*,2*,3*,4*)	
these problems using equations with a letter	I can identify different strategies for estimating. (1*,2*,3*,4*)	
standing for the unknown quantity. Assess the reasonableness of answers using mental computation	I can construct an equation with a letter standing for the unknown quality. (1*,2*,3*,4*)	
and estimation strategies including rounding. ³	I can solve two-step word problems using the four operations. (1*,2*,3*,4*)	
	I can justify my answer using estimation strategies and mental computation. (1*,2*,3*,4*)	
	(This standard will be taught in TOPIC # 2, 3, & 5.)	
	(This standard was taught in OTHER TOPICS, BUT MUST BE REVIEWED EVERY NINE WEEKS.)	
<u>3.0A.9.</u>	I can identify patterns. (1*, 2*,3*,4*)	
Identify arithmetic patterns (including patterns in the addition table or multiplication table), and	I can explain rules for a pattern using properties of operations. (1*, 2*,3*,4*)	
explain them using properties of operations. <i>For example, observe that</i>	I can explain relationships between the numbers in a pattern. (1*, 2*,3*,4*)	
4 times a number is always even, and explain why 4 times a number can be	(This standard will be taught in TOPIC # 2, 4 & 5.)	

decomposed into two equal addends.	(This standard was taught in OTHER TOPICS BUT MUST BE REVIEWED EVERY NINE WEEKS.)	
DOMAIN:		
Numbers and		
Operations in Base		
Ten (NBT)		
<u>3.NBT.2.</u>	I can identify strategies for adding within 1000. (1*, 2*, 3*, 4*)	
Fluently add and subtract		
within 1,000 using	I can identify strategies for subtracting within 1000. (1*, 2*,	
strategies and algorithms	3*, 4*)	
based on place value,	\mathbf{I} and flux and \mathbf{I} and \mathbf{I} (1) (1) (1) (1)	
properties of operations, and/or the relationship	I can fluently add within 1000. (1*,2, 3, 4*)	
between addition and	I can fluently subtract within 1000. (1*,2, 3, 4*)	
subtraction. ⁴		
4 Range of algorithms may be used	(This standard will be taught in TOPIC # 1, 2, & 3.)	
	(This standard was taught in OTHER TOPICS BUT	
	MUST BE REVIEWED EVERY NINE WEEKS.)	

3RD GRADE MATH-COMMON CORE PACING GUIDE 4TH 9 WEEKS

	2013-2014	T	. .
Standard	I Can Statements	Date Taught	Assessment
DOMAIN:	* Indicates which 9 weeks the standard		
Measurement and	will be tested.		
	will be tested.		
Data (MD)			
3.MD.2. Measure and estimate liquid volumes and masses of objects using	I can explain how to measure liquid volume in liters. (4*)		
standard units of grams (g), kilograms (kg), and liters (l). ⁶ Add, subtract, multiply, or divide to solve	I can explain how to measure mass in grams and kilograms. (4*)		
multiply, or divide to solve one-step word problems involving masses or volumes that are given in	I can add, subtract, multiply and divide units of liters, grams, and kilograms. (4*)		
the same units, e.g., by using drawings (such as a beaker with a	I can use strategies to represent a word problem involving liquid volume or mass. (4*)		
measurement scale) to represent the problem. ⁷	I can solve one step word problems involving masses given in the same units. (4*)		
	I can solve one step word problems involving volume given in the same units (eg. by using cups, pints, quarts, and gallons). (4*)		
	I can measure liquid volumes using liters. (4*)		
	I can measure mass of objects using grams (g) and kilograms (kg). (4*)		
2 MD 2	(This standard will be taught in TOPIC 15.)		
3.MD.3. Draw a scaled picture graph and a scaled bar graph to represent	I can identify and explain the scale of a graph. (4*)		
a data set with several categories. Solve one- and two- step "how many more" and "how many less" problems using	I can interpret a bar/picture graph to determine "how many more" and "how many less". (4*)		
information presented in scaled bar graphs. <i>For example, draw</i> <i>a bar graph in which each</i>	I can analyze a graph with a scale greater than one. (4*)		
square in the bar graph might represent 5 pets. ⁵ Grade 3 expectations in this domain	I can choose a proper scale for a bar graph or picture graph. (4*)		
are limited to fractions with denominators 2, 3, 4, 6, and 8. ⁶ Excludes compound units	I can create a scaled picture graph to show data. (4*)		
such as cm3 and finding geometric volume of a container. ⁷ Excludes multiplicative	I can create a scaled bar graph to show data. (4*)		
comparison problems (problems involving notions	(This standard will be taught in TOPIC 16.)		

of "times as much," see		I	
Glossary, Table 2)			
<u>3.MD.4.</u>			
Generate measurement	I can define horizontal axis. (4*)		
data by measuring lengths			
using rulers marked with halves and fourths of an	I can identify each plot on the line as data or a number		
inch. Show the data by	of objects. (4*)		
making a line plot, where	I can determine appreciate with of		
the horizontal scale is	I can determine appropriate unit of measurement. (4*)		
marked off in appropriate	I can determine appropriate scale for line plot. (4*)		
units—whole numbers,	r can determine appropriate scale for the plot. (4*)		
halves, or quarters.	I can measure and record lengths using rulers marked		
	with halves and fourths of an inch. (4*)		
	I can create a line plot where the horizontal scale is		
	marked off in appropriate units-whole numbers, halves,		
	and quarters. (4*)		
	(This standard will be taught in TOPIC 16.)		
DOMAIN:			
Operations and			
Algebraic Thinking			
•			
(OA)	I can memorize all products within 100. (1*,2*,3*,4*)		
<u>3.0A.7.</u> Fluently multiply and	$1 \cdot 1 \cdot $		
divide within 100, using	I can use strategies to solve multiplication problems.		
strategies such as the	(1*,2*,3*,4*)		
relationship between			
multiplication and division	I can use strategies to solve division problems. $(1^*, 2^*, 3^*, 4^*)$		
(e.g., knowing that 8 \times 5 = 40, one knows 40 \div			
x = 40, one knows $40 - 5 = 8$) or properties of	(By the end of Grade 3, know from memory all products		
operations. By the end of	of one-digit numbers.)		
grade 3, know from			
memory all products of	(This standard was taught in OTHER TOPICS, BUT		
two one-digit numbers	MUST BE REVIEWED EVERY NINE WEEKS.)		
<u>3.0A.8.</u>			
Solve two-step word	Loop identify the order of executions of a multi-		
problems using the four operations. Represent	I can identify the order of operations of a problem. (1*,2*,3*,4*)		
these problems using	(
equations with a letter	I can identify different strategies for estimating.		
standing for the unknown	(1*,2*,3*,4*)		
quantity. Assess the			
reasonableness of	I can construct an equation with a letter standing for the unknown quality $(1 \times 2 \times 3 \times 4 \times 4)$		
answers using mental computation and	unknown quality. (1*,2*,3*,4*)		
estimation strategies	I can solve two-step word problems using the four operations.		
including rounding. ³	(1*,2*,3*,4*)		
	I can justify my answer using estimation strategies and mental computation. $(1^*, 2^*, 3^*, 4^*)$		
	(This standard was taught in OTHER TOPICS, BUT		

	MUST BE REVIEWED EVERY NINE WEEKS.)	
	I can identify patterns. (1*, 2*, 3*, 4*)	
<u>3.0A.9.</u>		
Identify arithmetic patterns	I can explain rules for a pattern using properties of	
(including patterns in the	operations.	
addition table or	(1*, 2*, 3*, 4*)	
multiplication table), and		
explain them using	I can explain relationships between the numbers in a pattern.	
properties of operations.	(1*, 2*, 3*, 4*)	
For example, observe that		
4 times a number is	This standard was taught in OTHER TOPICS, BUT	
always even, and explain why 4 times a number can	MUST BE REVIEWED EVERY NINE WEEKS.)	
be decomposed into two		
equal addends.		
DOMAIN:		
Numbers and		
Operations in Base		
Ten (NBT)		
<u>3.NBT.2.</u>	I can identify strategies for adding within 1000. (1*, 2*, 3*, 4*)	
Fluently add and subtract		
within 1,000 using	I can identify strategies for subtracting within 1000. (1*, 2*,	
strategies and algorithms	3*, 4*)	
based on place value,		
properties of operations,	I can fluently add within 1000. (1*,2, 3, 4*)	
and/or the relationship		
between addition and	I can fluently subtract within 1000. (1*,2, 3, 4*)	
Subtraction. ⁴ 4 Range of algorithms may be used		
· Range of algonantis may be used	This standard was taught in OTHER TOPICS, BUT	
	MUST BE REVIEWED EVERY NINE WEEKS.)	