Grade 3 MATH Common Core Pacing Guide

Target Standard (chapters from book)	"I Can" statements	Vocabulary	Time Frame
Chapter 1: 3.NBT.1 — Use place value understanding to round whole numbers to the nearest 10 or 100	*I can round numbers to the nearest 10 *I can round numbers to the nearest 100	-digit -expanded form -place Value -standard Form -word Form -round	Trimester 1
Chapter 2: 3.NBT.2 – Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction 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	*I can add within 1,000 using many strategies *I can subtract within 1,000 using many strategies * I can identify and describe arithmetic patterns in number charts, addition tables, and multiplication tables.	-Associative Property of Addition -Commutative Property of Addition -Identity Property of Addition -mental math -parentheses -pattern -estimate	Trimester 1
Chapter 3: 3.NBT.2 –Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction	*I can add within 1,000 using many strategies *I can subtract within 1,000 using many strategies	-regroup -inverse Operation	Trimester 1
Chapter 4: 3.OA.1 – Interpret products of whole numbers, e.g., interpret 5x7 as the total number of objects in 5 groups of 7 objects each. For example, describe a context in which	*I understand and can show how to use multiplication in problem solving (5 groups of 7 people is equal to 5x7). * I know all products of 1 digit numbers.	-equal Groups -multiplication -multiplication sentence -multiply -product	Trimester 1

a total number of objects can be expressed as		-factors	
5x7	* I can solve word problems involving equal	-Commutative Property of	
	groups, arrays, and measurement quantities	Multiplication	
3.OA.3 – Chapters 5, 6, & 7 Use multiplication	using drawings and equations.	-array	
and division within 100 to solve word		-combination	
problems in situations involving equal groups,		-tree Diagram	
arrays, and measurement quantities, e.g., by			
using drawings and equations with a symbol			
for the unknown number to represent the			
problem			

Assessments	Resources
Weekly fluency quizzes	My Math (student, teacher, and online editions)
Pretests- "Am I Ready"	Front Row
Common Core Quick Checks	iPads- Fluency Apps
Math Talks	
Mid-Chapter Review- "Check My Progress"	
Chapter Assessments	

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Chapter 5: 3.OA.2 – Interpret whole- number quotients of whole numbers, e.g., interpret 56/8 as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each. For example, describe a context in which a number or shares or a number of groups can be expressed as 56/8. 3.OA.7 – Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that 8x5 =40, one knows 40/5=8) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.	*I understand the meaning division problems and how they are related to equal shares. * I can indentify parts of division equations (dividend, divisor, and quotient). * I can explain division as a set of objects partitioned into an equal number of shares. * I know all products of 1 digit numbers.	-division -divide -partition -division Sentence -repeated Subtraction -dividend -divisor -quotient -inverse Operations -related Facts -fact Family	Trimester 2
Chapter 6: 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. 3. NBT.3 – Multiply one-digit whole numbers by multiples of 10 in the range 10-90 (e.g., 9x80, 5x60) using strategies based on place value and properties of operations	* I can identify and describe arithmetic patterns in number charts, addition tables, and multiplication tables. * I can multiply 1-digit numbers by multiples of 10 and solve using place value properties (9x80=720). *I know all products of 1 digit numbers	-multiple	Trimester 2

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3.OA.7 – Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that 8x5 =40, one knows 40/5=8) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers. Chapter 7:	* I can solve word problems involving equal	-known fact	Trimester 2
 3.OA.3 – Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem 3.OA.4 – Chapters 5, 6, & 7 Determine the unknown whole number in a multiplication or division equation relating three whole numbers. For example, determine the unknown number that makes the equation true in each of the equations 8x?=48, 5=_/3, 6x6 =? 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. 	groups, arrays, and measurement quantities using drawings and equations. *I can determine the unknown number in multiplication and division problems such as in the following. • 8x9=? • 8x?=48 • 28/7=? • ?/6=3 *I can identify parts of multiplication equation (factors and products). * I can identify and describe arithmetic patterns in number charts, addition tables, and multiplication tables.	-decompose	
Chapter 8: 3.OA.1 – Interpret products of whole numbers, e.g., interpret 5x7 as the total number of objects in 5 groups of 7 objects each. For example, describe a context in which a total number of objects can be expressed as 5x7	*I understand and can show how to use multiplication in problem solving (5 groups of 7 people is equal to 5x7). * I know all products of 1 digit numbers. *I understand the meaning division problems and how they are related to equal shares.	-Multiply -Divide -Product -Quotient -Array -Related Facts -Equal Groups	Trimester 2

3.OA.2 – Interpret whole- number quotients	* I can indentify parts of division equations		
of whole numbers, e.g., interpret 56/8 as the	(dividend, divisor, and quotient).		
number of objects in each share when 56			
objects are partitioned equally into 8 shares,	* I can explain division as a set of objects		
or as a number of shares when 56 objects are	partitioned into an equal number of shares.		
partitioned into equal shares of 8 objects			
each. For example, describe a context in which	* I can solve word problems involving equal		
a number or shares or a number of groups can	groups, arrays, and measurement quantities		
be expressed as 56/8.	using drawings and equations.		
3.OA.3 – Use multiplication and division within	* I can identify and describe arithmetic patterns		
100 to solve word problems in situations	in number charts, addition tables, and		
involving equal groups, arrays, and	multiplication tables.		
measurement quantities, e.g., by using	·		
drawings and equations with a symbol for the			
unknown number to represent the problem			
·			
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.			
Chapter 10:	* I can represent a unit fraction on a number	-equivalent fractions	Trimester 2
3.NF.2 – Understand a fraction as a number on	line between 0 and 1.	-compare	
the number line; represent fractions on a		-numerator	
number line diagram.	* I can explain and show how a fraction can be	-denominator	
 Represent a fraction 1/b on a number line 	represented on a number line in two ways:		
diagram by defining the interval from 0-1 as	(1) as a number that is located a to the right of		
the whole and partitioning it into b equal	o, and		
parts. Recognize that each part has size 1/b	(2) as the size of each of the parts when a		
and that the endpoint of the part based at 0	whole is partitioned into equal parts		
locates the number 1/b on the number line			
 Represent a fraction a/b on a number line 	* I can locate equivalent fractions on a number		
• Represent a fraction a/b on a number line diagram by marking off a lengths 1/b from 0.	* I can locate equivalent fractions on a number line.		
diagram by marking off a lengths 1/b from 0.	•		
diagram by marking off a lengths 1/b from 0. Recognize that the resulting interval has size	•		
diagram by marking off a lengths 1/b from 0.	line.		

3.NF.3 – Chapter 9 Explain equivalence of	* I can use >, <, and = to compare fractions.	
fractions in special cases, and compare		
fractions by reasoning about their size.	* I can use models to show and explain	
Understand two fractions as equivalent	equivalent fractions.	
(equal) if they are the same size, or the same		
point on a number line.	* I can explain how the size of equal parts can be	
Recognize and generate simple equivalent	used to compare two fractions with the same	
fractions, (e.g., $\frac{1}{2}$ = 2/4, 4/6 = 2/3). Explain	denominator.	
why the fractions are equivalent, E.G, by using		
a visual fraction model.	* I can explain how the size of equal parts can be	
 Express whole numbers as fractions, and 	used to compare two fractions with the same	
recognize fractions that are equivalent to	numerator.	
whole numbers. Examples: Express 3 in the		
form 3= 3/1; recognize that 6/1=6; locate 4/4		
and 1 at the same point of a number line		
diagram.		
 Compare two fractions with the same 		
numerator or the same denominator by		
reasoning about their size. Recognize that		
comparisons are valid only when the two		
fractions refer to the same whole. Record the		

Assessments	Resources
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results of comparisons with the symbols >.=,

or

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(chapters from book)			
Chapter 11: 3.MD.2 – Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l). Add, subtract, multiply, or divide to solve onestep word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem.	*I can measure liquid volumes and masses of objects using standard units of measure (grams, kilograms, and liters) * I can estimate liquid, volumes, and masses of objects using standard units of measure (grams, kilograms, and liters) * I can use drawings to represent one-step word problems involving masses or volumes. *I can solve one-step word problems involving masses or volumes using addition, subtraction, multiplication, or division.	-gram -kilogram -mass -capacity -liquid volume -liter -metric unit -milliliter -unit	Trimester 3
Chapter 12: 3.MD.4 – Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units – whole numbers, halves, or quarters.	* I can gather and record measurement data using whole, half, and quarter inches. * I can make a line plot with the horizontal scale marked off in whole number, half, or quarter units. * I can use a ruler to measure lengths in whole, half, and quarter inches.	-line plot -half inch (1/2) -quarter inch (1/4)	Trimester 3
Chapter 13: 3.MD.7 – Relate area to the operations of multiplication and addition. • Find the area of a rectangle with wholenumber side lengths by tiling it, and show that the area is the same as would be found by multiplying the side lengths.	* I can explain area as an additive and use this understanding to solve word problems. * I can use area models to explain the distributive property. * I can multiply adjacent side lengths of rectangles to solve word problems.	-area -perimeter -Distributive Property -composite figures -formula -unit square -square unit	Trimester 3

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Multiply side lengths to find areas of			
rectangles with whole-number side lengths in	* I can find the perimeter of polygons when		
the context of solving real world and	given the lengths of all sides.		
mathematical problems, and represent whole-			
number products as rectangular areas in	* I can find unknown side lengths of polygons		
mathematical reasoning.	when given the perimeter.		
• Use tiling to show in a concrete case that the			
area of a rectangle with wholenumber side	* I can solve word problems involving perimeter.		
lengths a and $b=c$ is the sum of a x b and a x c.			
Use area models to represent the distributive	* I can show how rectangles with the same		
property in mathematical reasoning.	perimeter can have different areas and show		
 Recognize area as additive. Find areas of 	rectangles with the same areas can have		
rectilinear figures by decomposing them into	different perimeters.		
non-overlapping parts, applying this technique			
to solve real world problems.			
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 perimeter.			
Chapter 14:	* I can identify polygons.	-angle	Trimester 3
3.G.1 –Understand that shapes in different		-vertex	
categories (e.g., rhombuses, rectangles, and	* I can use attributes to identify shapes.	-right angle	
others) may share attributes (e.g., having four		-ray	
sides), and that the shared attributes can	* I can use attributes to classify shapes into	-endpoint	
define a larger category (e.g., quadrilaterals).	categories.	-polygon	
Recognize rhombuses, rectangles, and squares		-pentagon	
as examples of quadrilaterals, and draw	* I can define quadrilaterals.	-hexagon	
examples of quadrilaterals that do not belong		-octagon	
to any of these subcategories.	* I can draw quadrilaterals other than	-triangle	
	rhombuses, rectangles, and squares.	-attribute	
3.G.2 – Partition shapes into parts with equal		-quadrilateral	
areas. Express the area of each part as a unit	* I can partition (divide) shapes into equal parts	-right triangle	
fraction of the whole. For example, partition a	with equal areas.	-parallelogram	
• • •	Triting and an east	'	
shape into 4 parts with equal area, and		-parallel	

describe the area of each part as ¼ of the area	-rectangle	
of the shape.	-rhombus	
	-trapezoid	

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