

3rd Grade
Math in Focus

Chapter 1-Numbers to 10,000				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Counting	<ul style="list-style-type: none"> Use base-ten blocks to count, read, and write numbers to 10,000 Count on by 1s, 10s, 100s, and 1,000s to 10,000 	3.OA.9	CC.2.2.3.A.4 M03.B-O.3.1.5	Mastery Provide adequate time for Mastery
Lesson 2 Place Value	<ul style="list-style-type: none"> Use base –ten blocks and a place-value chart to read, write, and represent numbers to 10,000 Read and write numbers to 10,000 in standard form, expanded form, and word form 			Mastery Provide adequate time for Mastery
Lesson 3 Comparing and Ordering Numbers	<ul style="list-style-type: none"> Use base-ten blocks to compare and order numbers Use place value to compare and order numbers 	3.OA.9	CC.2.2.3.A.4 M03.B-O.3.1.5	Mastery Provide adequate time for Mastery

Chapter 2-Mental Math and Estimation				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Mental Addition	<ul style="list-style-type: none"> Add 2-digit numbers mentally with or without regrouping 	3.NBT.2	CC.2.1.3.B.1 M03.A-T.1.1.2	Mastery Provide adequate time for Mastery
Lesson 2 Mental Subtraction	<ul style="list-style-type: none"> Subtract 2-digit numbers mentally with or without regrouping 	3.NBT.2	CC.2.1.3.B.1 M03.A-T.1.1.2	Mastery Provide adequate time for Mastery
Lesson 3 More Mental Addition	<ul style="list-style-type: none"> Use different strategies to add 2-digit numbers close to 100 mentally 	3.NBT.2	CC.2.1.3.B.1 M03.A-T.1.1.2	Exposure-Mental Math is a Strategy
Lesson 4 Rounding Numbers to Estimate	<ul style="list-style-type: none"> Round numbers to estimate sums and differences 	3.NBT.1 3.NBT.2	CC.2.1.3.B.1 M03.A-T.1.1.1 M03.A-T.1.1.2	Mastery Provide adequate time for Mastery
Lesson 5 Use Front-End Estimation	<ul style="list-style-type: none"> Use front-end estimation to estimate sums and differences 	3.NBT.2	CC.2.1.3.B.1 M03.A-T.1.1.2	Exposure Skill must be addressed but not mastered

Chapter 3-Addition up to 10,000				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Addition	<ul style="list-style-type: none"> Add greater numbers without regrouping 	3.NBT.2	CC.2.1.3.B.1 M03.A-T.1.1.2	Mastery Provide adequate

Without Regrouping				time for Mastery
Lesson 2 Addition with Regrouping in Hundreds	<ul style="list-style-type: none"> Add greater numbers with regrouping in hundreds 	3.NBT.2	CC.2.1.3.B.1 M03.A-T.1.1.2	Mastery Provide adequate time for Mastery
Lesson 3 Addition with Regrouping in Ones, Tens and Hundreds	<ul style="list-style-type: none"> Add greater numbers with regrouping in ones, tens and hundreds 	3.NBT.2	CC.2.1.3.B.1 M03.A-T.1.1.2	Mastery Provide adequate time for Mastery

Chapter 4-Subtraction up to 10,000				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Subtraction without Regrouping	<ul style="list-style-type: none"> Use base-ten blocks to subtract without regrouping 	3.NBT.2	CC.2.1.3.B.1 M03.A-T.1.1.2	Mastery Provide adequate time for Mastery
Lesson 2 Subtraction with Regrouping in Hundreds and Thousands	<ul style="list-style-type: none"> Use base-ten blocks to subtract with regrouping 	3.NBT.2	CC.2.1.3.B.1 M03.A-T.1.1.2	Mastery Provide adequate time for Mastery
Lesson 3 Subtraction with Regrouping in Ones, Tens, Hundreds, and Thousand	<ul style="list-style-type: none"> Use base-ten blocks to subtract with regrouping 	3.NBT.2	CC.2.1.3.B.1 M03.A-T.1.1.2	Mastery Provide adequate time for Mastery
Lesson 4 Subtraction Across Zeros	<ul style="list-style-type: none"> Use base-ten blocks to subtract across zeros Write subtraction number sentences Solve subtraction word problems 	3.NBT.2	CC.2.1.3.B.1 M03.A-T.1.1.2	Mastery Provide adequate time for Mastery

Chapter 5-Using Bar Models: Addition and Subtraction				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Real-World Problems:	<ul style="list-style-type: none"> Use bar models to solve two-step real-world problems involving addition and subtraction 	3.OA.8 3.NBT.2	CC.2.2.3.A.4 M03.B-O.3.1.1 M03.B-O.3.1.2	Exposure Skill must be addressed but not

Addition and Subtraction			M03.B-O.3.1.3 CC.2.1.3.B.1 M03.A-T.1.1.2	mastered
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Chapter 6-Multiplication Tables of 6, 7, 8, and 9				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Multiplication Properties	<ul style="list-style-type: none"> Use multiplication properties 	3.OA.4 3.OA.5 3.OA.7	CC.2.2.3.A.1 M03.B-O.1.2.2 CC.2.2.3.A.2 M03.B-O.2.1.1 M03.B-O.2.1.2 CC.2.2.3.A.3	Exposure to Mastery Provide adequate time for Mastery
Lesson 2 Multiply by 6	<ul style="list-style-type: none"> Understand multiplication by using array models Practice multiplication facts to 6 	3.OA.4 3.OA.5 3.OA.7 3.OA.9	CC.2.2.3.A.1 M03.B-O.1.2.2 CC.2.2.3.A.2 M03.B-O.2.1.1 M03.B-O.2.1.2 CC.2.2.3.A.3	Exposure to Mastery Provide adequate time for Mastery
Lesson 3 Multiply by 7	<ul style="list-style-type: none"> Understand multiplication by using array models Practice multiplication facts to 7 	3.OA.7 3.OA.9 3.MD.7c 3.MD.7d	CC.2.2.3.A.3 CC.2.2.3.A.4 M03.B-O.3.1.5	Exposure to Mastery Provide adequate time for Mastery
Lesson 4 Multiply by 8	<ul style="list-style-type: none"> Understand multiplication by using array models Practice multiplication facts to 8 	3.OA.7 3.OA.9 3.MD.7c 3.MD.7d	CC.2.2.3.A.3 CC.2.2.3.A.4 M03.B-O.3.1.5	Exposure to Mastery Provide adequate time for Mastery
Lesson 5 Multiply by 9	<ul style="list-style-type: none"> Understand multiplication by using array models Practice multiplication facts to 9 	3.OA.7 3.OA.9 3.MD.7c 3.MD.7d	CC.2.2.3.A.3 CC.2.2.3.A.4 M03.B-O.3.1.5	Exposure to Mastery Provide adequate time for Mastery
Lesson 6 Division: Finding the Number of Items in Each Group	<ul style="list-style-type: none"> Divide to find the number of items in each group Understand the related multiplication and division facts Write division sentences for real-world problems 	3.OA.2 3.OA.3 3.OA.6	CC.2.2.3.A.1 M03.B-O.1.1.2 M03.B-O.1.2.1 CC.2.2.3.A.2 M03.B-O.2.2.1	Exposure to Mastery Provide adequate time for Mastery
Lesson 7 Division: Making Equal Groups	<ul style="list-style-type: none"> Divide to find the number of groups Understand related multiplication and division facts Express division sentences for real-world problems 	3.OA.2 3.OA.6 3.OA.7	CC.2.2.3.A.1 M03.B-O.1.1.2 CC.2.2.3.A.2 M03.B-O.2.2.1 CC.2.2.3.A.3	Exposure to Mastery Provide adequate time for Mastery

Chapter 7-Multiplicaton				
Lesson	Objective	Common	PA Core	Mastery/Exposure

		Core		
Lesson 1 Mental Multiplication	<ul style="list-style-type: none"> Multiply ones, tens, and hundred mentally 	3.OA.4 3.OA.5 3.OA.7 3.OA.9 3.NBT.3	CC.2.2.3.A.1 M03.B-O.1.2.2 CC.2.2.3.A.2 M03.B-O.2.1.1 M03.B-O.2.1.2 CC.2.2.3.A.3 CC.2.2.3.A.4 M03.B-O.3.1.5 CC.2.1.3.B.1 M03.A-T.1.1.3	Exposure-Mental Math is Difficult Skill must be addressed but not mastered
Lesson 2 Multiplying Ones, Tens, and Hundreds without Regrouping	<ul style="list-style-type: none"> Multiply ones, tens and hundreds without regrouping 	3.OA.4 3.OA.5 3.OA.7	CC.2.2.3.A.1 M03.B-O.1.2.2 CC.2.2.3.A.2 M03.B-O.2.1.1 M03.B-O.2.1.2 CC.2.2.3.A.3	Exposure Skill must be addressed but not mastered
Lesson 3 Multiplying Ones, Tens and Hundreds with Regrouping	<ul style="list-style-type: none"> Multiply ones, tens and hundreds with regrouping 	3.OA.4 3.OA.5 3.OA.7 3.NBT.3	CC.2.2.3.A.1 M03.B-O.1.2.2 CC.2.2.3.A.2 M03.B-O.2.1.1 M03.B-O.2.1.2 CC.2.2.3.A.3 CC.2.1.3.B.1 M03.A-T.1.1.3	Exposure Skill must be addressed but not mastered

Chapter 8-Division				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Mental Division	<ul style="list-style-type: none"> Use related multiplication facts to divide Use patterns to divide multiples of 10 and 100 	3.OA.4 3.OA.5 3.OA.6 3.OA.7	CC.2.2.3.A.1 M03.B-O.1.2.2 CC.2.2.3.A.2 M03.B-O.2.1.1 M03.B-O.2.1.2 M03.B-O.2.2.1 CC.2.2.3.A.3	Exposure to Mastery Provide adequate time for Mastery
Lesson 2 Quotient and Remainder	<ul style="list-style-type: none"> Divide a 1- or 2-digit number by a 1-digit number with or without a remainder 	3.OA.3 3.OA.4 3.OA.5 3.OA.6 3.OA.7 3.OA.9	CC.2.2.3.A.1 M03.B-O.1.2.1 M03.B-O.1.2.2 CC.2.2.3.A.2 M03.B-O.2.1.1 M03.B-O.2.1.2 M03.B-O.2.2.1 CC.2.2.3.A.3 CC.2.2.3.A.4 M03.B-O.3.1.5	Exposure to Mastery Provide adequate time for Mastery
Lesson 3 Odd and Even	<ul style="list-style-type: none"> Use different strategies to identify odd and even numbers 	3.OA.4 3.OA.5	CC.2.2.3.A.1 M03.B-O.1.2.2	Exposure Skill must be

Numbers		3.OA.6 3.OA.7 3.OA.9	CC.2.2.3.A.2 M03.B-O.2.1.1 M03.B-O.2.1.2 M03.B-O.2.2.1 CC.2.2.3.A.3 CC.2.2.3.A.4 M03.B-O.3.1.5	addressed but not mastered
Lesson 4 Division Without Remainder and Regrouping	<ul style="list-style-type: none"> Use base-ten blocks and place value to divide 2-digit numbers without regrouping or remainders 	3.OA.3 3.OA.4 3.OA.5 3.OA.6 3.OA.7	CC.2.2.3.A.1 M03.B-O.1.2.1 M03.B-O.1.2.2 CC.2.2.3.A.2 M03.B-O.2.1.1 M03.B-O.2.1.2 M03.B-O.2.2.1 CC.2.2.3.A.3	Exposure to Mastery Provide adequate time for Mastery
Lesson 5 Division With Regrouping in Tens and Ones	<ul style="list-style-type: none"> Use base-ten blocks and place value to divide 2-digit numbers by a 1-digit number with regrouping, with or without remainders 	3.OA.3 3.OA.4 3.OA.5 3.OA.6 3.OA.7	CC.2.2.3.A.1 M03.B-O.1.2.1 M03.B-O.1.2.2 CC.2.2.3.A.2 M03.B-O.2.1.1 M03.B-O.2.1.2 M03.B-O.2.2.1 CC.2.2.3.A.3	Exposure to Mastery Provide adequate time for Mastery

Chapter 9-Using Bar Models: Multiplication and Division				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Real-World Problems: Multiplication	<ul style="list-style-type: none"> Use bar models to solve one-step multiplication problems 	3.OA.3 3.OA.4 3.OA.5 3.OA.7	CC.2.2.3.A.1 M03.B-O.1.2.1 M03.B-O.1.2.2 CC.2.2.3.A.2 M03.B-O.2.1.1 M03.B-O.2.1.2 CC.2.2.3.A.3	Exposure to Mastery Provide adequate time for Mastery
Lesson 2 Real-World Problems: Two-Step Problems with Multiplication	<ul style="list-style-type: none"> Use bar models to solve two-step word problems Choose the correct operations to solve two-step word problems Represent unknown quantities with letters 	3.OA.3 3.OA.4 3.OA.5 3.OA.7 3.OA.8	CC.2.2.3.A.1 M03.B-O.1.2.1 M03.B-O.1.2.2 CC.2.2.3.A.2 M03.B-O.2.1.1 M03.B-O.2.1.2 CC.2.2.3.A.3 CC.2.2.3.A.4 M03.B-O.3.1.1 M03.B-O.3.1.2 M03.B-O.3.1.3	Exposure to Mastery Provide adequate time for Mastery
Lesson 3 Real-World	<ul style="list-style-type: none"> Use bar models to solve one-step division problems 	3.OA.3 3.OA.6	CC.2.2.3.A.1 M03.B-O.1.2.1	Exposure Skill must be

Problems: Division	<ul style="list-style-type: none"> Recognize number relationships 		CC.2.2.3.A.2 M03.B-O.2.2.1	addressed but not mastered
Lesson 4 Real-World Problems: Two-Step Problems with Division	<ul style="list-style-type: none"> Use bar models to solve two-step word problems Choose the correct operations to solve two-step word problems Solve two-step problems using the four operations Represent unknown quantities with letters 	3.OA.3 3.OA.6 3.OA.8	CC.2.2.3.A.1 M03.B-O.1.2.1 CC.2.2.3.A.2 M03.B-O.2.2.1 CC.2.2.3.A.4 M03.B-O.3.1.1 M03.B-O.3.1.2 M03.B-O.3.1.3	Exposure Skill must be addressed but not mastered

Chapter 10-Money				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Addition	<ul style="list-style-type: none"> Add money in different ways without regrouping Add money in different ways with regrouping 	3.NBT.2	CC.2.1.3.B.1 M03.A-T.1.1.2	Mastery Provide adequate time for Mastery
Lesson 2 Subtraction	<ul style="list-style-type: none"> Subtract money in different ways without regrouping Subtract money in different ways with regrouping 	3.NBT.2	CC.2.1.3.B.1 M03.A-T.1.1.2	Mastery Provide adequate time for Mastery
Lesson 3 Real-World Problems: Money	<ul style="list-style-type: none"> Solve up to two-step real-world problems involving addition and subtraction of money 	3.NBT.2	CC.2.1.3.B.1 M03.A-T.1.1.2	Exposure to Mastery Provide adequate time for Mastery

Chapter 11-Metric Length, Mass, and Volume				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Meters and Centimeters	<ul style="list-style-type: none"> Use meter and centimeter as units of measurement of length Estimate and measure length Convert units of measurement 			Exposure Skill must be addressed but not mastered
Lesson 2 Kilometers and Meters	<ul style="list-style-type: none"> Use kilometers and meters as units of measurement of length Estimate and measure length Convert units of measurement 			Exposure Skill must be addressed but not mastered
Lesson 3 Kilograms and Grams	<ul style="list-style-type: none"> Read scales in kilograms and grams Estimate and find actual masses of objects by using different scales Convert units of measurement 	3.MD.2	CC.2.4.3.A.1 M03.D-M.1.2.1 M03.D-M.1.2.2	Exposure Skill must be addressed but not mastered
Lesson 4 Liters and Milliliters	<ul style="list-style-type: none"> Estimate and find the volume of liquid in liters and milliliters Find the volume and capacity of a container 	3.MD.2	CC.2.4.3.A.1 M03.D-M.1.2.1 M03.D-M.1.2.2	Exposure Skill must be addressed but not mastered

	<ul style="list-style-type: none"> Convert units of measurement 			
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Chapter 12-Real-World Problems: Measurement				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Real-World Problems: One-Step Problems	<ul style="list-style-type: none"> Draw bar models to solve one-step measurement problems Choose the operation to solve one-step problems 	3.OA.3 3.OA.4 3.OA.5 3.OA.6 3.NBT.2 3.MD.2	CC.2.2.3.A.1 M03.B-O.1.2.1 M03.B-O.1.2.2 CC.2.2.3.A.2 M03.B-O.2.1.1 M03.B-O.2.1.2 M03.B-O.2.2.1 CC.2.1.3.B.1 M03.A-T.1.1.2 CC.2.4.3.A.1 M03.D-M.1.2.1 M03.D-M.1.2.2	Exposure to Mastery Provide adequate time for Mastery
Lesson 2 Real-World Problems: Two-Step Problems	<ul style="list-style-type: none"> Draw bar models to solve two-step measurement problems Choose the operation to solve problems 	3.OA.3 3.OA.4 3.OA.5 3.OA.6 3.OA.7 3.NBT.2 3.MD.2	CC.2.2.3.A.1 M03.B-O.1.2.1 M03.B-O.1.2.2 CC.2.2.3.A.2 M03.B-O.2.1.1 M03.B-O.2.1.2 M03.B-O.2.2.1 CC.2.2.3.A.3 CC.2.1.3.B.1 M03.A-T.1.1.2 CC.2.4.3.A.1 M03.D-M.1.2.1 M03.D-M.1.2.2	Exposure with a strong foundation of understanding

Chapter 13-Bar Graphs and Line Plots				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Making Bar Graphs with Scales	<ul style="list-style-type: none"> Make bar graphs with scales using data in picture graphs and tally charts 	3.MD.3	CC.2.4.3.A.4 M03.D-M.2.1.1 M03.D-M.2.1.2	Exposure to Mastery Provide adequate time for Mastery
Lesson 2 Reading and Interpreting Bar Graphs	<ul style="list-style-type: none"> Read and interpret data form bar graphs Solve problems using bar graphs 	3.MD.3	CC.2.4.3.A.4 M03.D-M.2.1.1 M03.D-M.2.1.2	Exposure to Mastery Provide adequate time for Mastery
Lesson 3 Line Plots	<ul style="list-style-type: none"> Make a line plot to represent and interpret data 	3.MD.3 3.MD.4	CC.2.4.3.A.4 M03.D-M.2.1.1 M03.D-M.2.1.2 M03.D-M.2.1.3	Exposure to Mastery Provide adequate time for Mastery

Chapter 14-Fractions				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Understanding Fractions	<ul style="list-style-type: none"> Read, write, and identify fractions of wholes with more than 4 parts Identify the numerator and denominator 	3.NF.2a 3.NF.2b 3.NF.3c 3.G.2	CC.2.1.3.C.1 M03.A-F.1.1.2 M03.A-F.1.1.4 CC.2.3.3.A.2 M03.C-G.1.1.3	Mastery Provide adequate time for Mastery
Lesson 2 Understanding Equivalent Fractions	<ul style="list-style-type: none"> Use models to identify equivalent fractions Use a number line to identify equivalent fractions 	3.NF.2a 3.NF.2b 3.NF.3a 3.NF.3b	CC.2.1.3.C.1 M03.A-F.1.1.2 M03.A-F.1.1.3	Exposure Skill must be addressed but not mastered
Lesson 3 More Equivalent Fractions	<ul style="list-style-type: none"> Use multiplication and division to find equivalent fractions Write fractions in simplest form 	3.NF.1 3.NF.3a 3.NF.3b 3.G.2	CC.2.1.3.C.1 M03.A-F.1.1.1 M03.A-F.1.1.3 CC.2.3.3.A.2 M03.C-G.1.1.3	Exposure Skill must be addressed but not mastered
Lesson 4 Comparing Fractions	<ul style="list-style-type: none"> Show fractions as points or distances on a number line Compare and order fractions Compare and order fractions using benchmark fractions 	3.NF.2a 3.NF.2b 3.NF.3d	CC.2.1.3.C.1 M03.A-F.1.1.2 M03.A-F.1.1.5	Exposure Skill must be addressed but not mastered
Lesson 5 Fractions as a Whole or Set	<ul style="list-style-type: none"> Read, write, and identify fractions of a set Find the number of items in a fraction of a set Express whole number as fractions Recognize fractions that are equal to whole numbers 	3.NF.1 3.NF.3c 3.G.2	CC.2.1.3.C.1 M03.A-F.1.1.1 M03.A-F.1.1.4 CC.2.3.3.A.2 M03.C-G.1.1.3	Exposure Skill must be addressed but not mastered

Chapter 15-Customary Length, Weight, and Capacity				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Measuring Length	<ul style="list-style-type: none"> Use inch, foot, yard and mile as units of measurement of lengths Estimate and measure given lengths in inches and in halves and fourths of an inch Use referents to estimate length 	3.MD.4	CC.2.4.3.A.4 M03.D-M.2.1.3	Mastery Provide adequate time for Mastery
Lesson 2 Measuring Weight	<ul style="list-style-type: none"> Use ounce, pound, and ton as units of measurement for weight Read scales in ounces and pounds Estimate and find actual weights of objects by using different scales Use referents to estimate weight 			Mastery Provide adequate time for Mastery
Lesson 3 Measuring Capacity	<ul style="list-style-type: none"> Measure capacity with cup, pint, quart, and gallon Estimate and find the actual capacity 			Mastery Provide adequate time for Mastery

	of a container • Relate units of capacity to one another			
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Chapter 16-Time and Temperature				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Telling Time	<ul style="list-style-type: none"> Tell time to the minute Read time on a digital clock 	3.MD.1	CC.2.4.3.A.2 M03.D-M.1.1.1 M03.D-M.1.1.2	Mastery Provide adequate time for Mastery
Lesson 2 Converting Hours and Minutes	<ul style="list-style-type: none"> Change minutes to hours and hours to minutes 	3.MD.1	CC.2.4.3.A.2 M03.D-M.1.1.1 M03.D-M.1.1.2	Exposure Skill must be addressed but not mastered
Lesson 3 Adding Hours and Minutes	<ul style="list-style-type: none"> Add time with and without regrouping 	3.MD.1	CC.2.4.3.A.2 M03.D-M.1.1.1 M03.D-M.1.1.2	Exposure Skill must be addressed but not mastered
Lesson 4 Subtracting Hours and Minutes	<ul style="list-style-type: none"> Subtract time with and without regrouping 	3.MD.1	CC.2.4.3.A.2 M03.D-M.1.1.1 M03.D-M.1.1.2	Exposure Skill must be addressed but not mastered
Lesson 5 Elapsed Time	<ul style="list-style-type: none"> Find elapsed time 	3.MD.1	CC.2.4.3.A.2 M03.D-M.1.1.1 M03.D-M.1.1.2	Exposure to Mastery (within hour)
Lesson 6 Measuring Temperature	<ul style="list-style-type: none"> Read a Fahrenheit thermometer Choose the appropriate tool and unit to measure temperature Use a referent to estimate temperature 			Mastery Provide adequate time for Mastery
Lesson 7 Real-World Problems: Time and Temperature	<ul style="list-style-type: none"> Solve up to two-step word problems on time Solve word problems involving temperature 	3.MD.1	CC.2.4.3.A.2 M03.D-M.1.1.1 M03.D-M.1.1.2	Exposure to Mastery Provide adequate time for Mastery

Chapter 17-Angles and Lines				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Understanding and Identifying Angles	<ul style="list-style-type: none"> Find angles in plane shapes and real-world objects Compare the number of sides and angles of plane shapes 	3.G.1	CC.2.3.3A.1 M03.C-G.1.1.1 M03.C-G.1.1.2	Mastery Provide adequate time for Mastery
Lesson 2 Right Angles	<ul style="list-style-type: none"> Make right angles Compare angles to a right angle Identify right angles in plane shapes 	3.G.1	CC.2.3.3A.1 M03.C-G.1.1.1 M03.C-G.1.1.2	Mastery Provide adequate time for Mastery
Lesson 3 Perpendicular Lines	<ul style="list-style-type: none"> Define and identify perpendicular lines 			Exposure to Mastery Provide adequate

				time for Mastery
Lesson 4 Parallel Lines	<ul style="list-style-type: none"> Define and identify parallel lines 			Exposure to Mastery Provide adequate time for Mastery

Chapter 18-Two-Dimensional Shapes				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Classifying Polygons	<ul style="list-style-type: none"> Identify open and closed figures Identify special polygons and quadrilaterals Classify polygons by the number of sides, vertices, and angles Classify quadrilaterals by parallel sides, length of sides, and angles Combine and separate polygons to make more polygons 	3.G.1	CC.2.3.3.A.1 M03.C-G.1.1.1 M03.C-G.1.1.2	Exposure to Mastery Provide adequate time for Mastery
Lesson 2 Congruent Figures	<ul style="list-style-type: none"> Identify a slide, flip, and turn Slide, flip, and turn shapes to make congruent figures Identify congruent figures 			Exposure Skill must be addressed but not mastered
Lesson 3 Symmetry	<ul style="list-style-type: none"> Identify symmetric figures Use folding to find a line of symmetry 	3.G.1	CC.2.3.3.A.1 M03.C-G.1.1.1 M03.C-G.1.1.2	Mastery Provide adequate time for Mastery

Chapter 19-Area and Perimeter				
Lesson	Objective	Common Core	PA Core	Mastery/Exposure
Lesson 1 Area	<ul style="list-style-type: none"> Understand the meaning of area Use square units to find the area of plane figures made of squares and half-squares Compare the areas of plane figures and make plane figures of the same area. 	3.MD.5a 3.MD.5b 3.MD.6 3.MD.7a	CC.2.4.3.A.5 M03.D-M.3.1.1 M03.D-M.3.1.2	Exposure to Mastery Provide adequate time for Mastery
Lesson 2 Square Units	<ul style="list-style-type: none"> Use square centimeters and square inches to find and compare the areas of figures 	3.MD.5a 3.MD.5b 3.MD.6 3.MD.7d	CC.2.4.3.A.5 M03.D-M.3.1.1 M03.D-M.3.1.2	Exposure to Mastery Provide adequate time for Mastery
Lesson 3 Square Units	<ul style="list-style-type: none"> Use square meters and square feet to find and compare the areas of plane figures Estimate the area of small and large surfaces 	3.MD.5a 3.MD.5b 3.MD.6 3.MD.7b 3.MD.7d	CC.2.4.3.A.5 M03.D-M.3.1.1 M03.D-M.3.1.2	Exposure Skill must be addressed but not mastered
Lesson 4 Perimeter and Area	<ul style="list-style-type: none"> Understand the meaning of perimeter Compare the area and perimeter of two figures Find the area of figures to solve real- 	3.NBT.2 3.MD.5a 3.MD.5b 3.MD.6	CC.2.1.3.B.1 M03.A-T.1.1.2 CC.2.4.3.A.5 M03.D-M.3.1.1	Exposure to Mastery Provide adequate time for Mastery

	world problems	3.MD.7d 3.MD.8	M03.D-M.3.1.2 CC.2.4.3.A.6 M03.D-M.4.1.1	
Lesson 5 More Perimeter	<ul style="list-style-type: none"> Find the perimeter of a figure by adding up all the sides Choose the appropriate tool and units of length to measure perimeter Measure the perimeter of surfaces of objects and places 	3.NBT.2 3.MD.8	CC.2.1.3.B.1 M03.A-T.1.1.2 CC.2.4.3.A.6 M03.D-M.4.1.1	Exposure to Mastery Provide adequate time for Mastery

Missing Standard	Resource
M03.A-T.1.1.4	
M03.B-O.1.1.1	
M03.B-O.1.1.2	
M03.B-O.3.1.4	
M03.B-O.3.1.6	
M03.B-O.3.1.7	
M03.C-G.1.1.3	
M03.D-M.1.3.1	
M03.D-M.1.3.2	
M03.D-M.1.3.3	
M03.D-M.1.2.3	
M03.D-M.2.1.4	