## BENCHMARK SEQUENCE REPORT MATHEMATICS GRADE 3 BY QUARTER



This planning tool can be used to sequence the teaching and assessing of the OCS Benchmarks. Benchmarks should be assessed formatively in multiple ways and over multiple times to guide reteaching/relearning. Benchmarks that are assessed summatively should be sequenced throughout the school year to determine student mastery.

	rter 1		ter 2		rter 3	Quarter 4		OCS Benchmarks
Taught	Assessed	Taught	Assessed	Taught	Assessed	Taught Assessed	OCS Codes	Benchmarks
				-		DOMAIN: Sta	ndards for Mathe	
							perations and Algebraic	
				h			crations and Angebraic	
.SMC.OA.1	Represent ar	ia soive prob	iems involvii	ng multiplica	tion and divi	sion.		
							3.SMC.OA.1.1.a	Interpret products of whole numbers
							3.SMC.OA.1.2.a	Interpret whole-number quotients of whole numbers
								Use multiplication and division with numbers up to 100 to solve word problems in situations
							3.SMC.OA.1.3-1.b	involving equal groups
								Use multiplication and division with numbers up to 100 to solve word problems in situations
							3.SMC.OA.1.3-2.b	involving arrays
							2 5 4 5 0 4 4 2 2 5	Use multiplication and division with numbers up to 100 to solve word problems in situations
							3.SMC.OA.1.3-3.b	involving measurement quantities  Determine the unknown whole number in a multiplication or division equation relating three
							3.SMC.OA.1.4.b	whole numbers
						<u> </u>		WHOIC HUMBERS
.SMC.OA.2	Understand	properties of	multiplication	n and the re	elationship be	tween multiplication a	ind division.	
							3.SMC.OA.2.1.c	Multiply and divide using properties of operations
							3.SMC.OA.2.2.b	Show that division is the multiplication of the dividend and divisor of a number
.SMC.OA.3	Multiply and	divide withi	n 100.					
I							2 5045 04 2.4 5	National and divide markets as to 400 ftermin
		L				l l	3.SMC.OA.3.1.b	Multiply and divide numbers up to 100 fluently
.SMC.OA.4	Solve proble	ms involving	the four ope	rations, and	identify and	explain patterns in arit	hmetic.	
							3.SMC.OA.4.1-1.c	Solve two-step word problems using the four operations
								Represent two-step word problems using equations with a letter standing for the unknown
							3.SMC.OA.4.1-2.c	quantity
								Assess the reasonableness of an answer after solving a two-step word problems using the
							3.SMC.OA.4.1-3.c	four operations
							3.SMC.OA.4.2-1.c	Identify arithmetic patterns found in an addition or multiplication table
								Explain arithmetic patterns found in an addition or multiplication table by using properties of
							3.SMC.OA.4.2-2.c	operations
						Strand: Nui	mber and Operations in I	Base Ten (NBT)
.SMC.NBT.:	1 Use place v	alue underst	anding and p	roperties of	operations to	perform multi-digit ar	ithmetic.	
							3.SMC.NBT.1.1.a	Use place value understanding to round whole numbers to the nearest 10 or 100
							3.SMC.NBT.1.2.a	Use strategies and algorithms to fluently add and subtract numbers up to 1000
								Use strategies based on place value and properties of operations to multiply one-digit whole
							3.SMC.NBT.1.3.b	numbers by multiples of 10 in the range 10-90
						Strand: No	ımber and Operations -	Fractions (NF)
.SMC.NF.1	Develop und	erstanding of	f fractions as	numbers.				
1								Show that a fraction 1/h is equal to the quantity formed by 1 part when a whole is
							3.SMC.NF.1.1-1.a	Show that a fraction 1/b is equal to the quantity formed by 1 part when a whole is partitioned into b equal parts
							3.SMC.NF.1.1-1.a	Show that a fraction a/b is equal to the quantity formed by a parts of size 1/b
							3.5.00.0.101.1.1 2.0	Represent a fraction 1/b on a number line diagram by defining the interval from 0 to 1 as the
							3.SMC.NF.1.2-1.b	whole and partitioning it into b equal parts
								Demonstrate that each part on a number line diagram has size 1/b and that the endpoint of
							3.SMC.NF.1.2-2.b	the part based at 0 locates the number 1/b
						<b> </b>	1	<u> </u>



				1	1	
						Explain that an interval on a number line diagram has size a/b and that its endpoint locates
					3.SMC.NF.1.	
						Identify two fractions as equivalent if they are the same size or the same point on a number
					3.SMC.NF.1.	
					3.SMC.NF.1.	
					3.SMC.NF.1.	
	1				3.SMC.NF.1.	
	1				3.SMC.NF.1.	
					3.SMC.NF.1.	·
						Explain why comparisons are valid only when two fractions with the same numerator or
					3.SMC.NF.1.	
						Record the results of comparisons of two fractions with the same numerator or denominator
					3.SMC.NF.1.	3-8.c with the symbols >, =, and <
						Use a fraction model to justify conclusions based on comparisons of fractions with the same
					3.SMC.NF.1.	3-9.c numerator or denominator
					Strand: Measurement	t and Data (MD)
SMC.MD	.1 Solve probl	ems involving n	neasurement and est	imation of intervals	of time, liquid volumes, and masse	es of objects.
	1				3.SMC.MD.1	.1-1.a Tell time to the nearest minute
					3.SMC.MD.1	.1-2.a Write time to the nearest minute
					3.SMC.MD.1	.1-3.a Measure time intervals in minutes
					2 5145 145 4	
					3.SMC.MD.1	.1-4.b Solve word problems involving addition and subtraction of time intervals in minutes
					3.SMC.MD.1	.2-1.b Measure liquid volumes and masses of objects using standard units
					3.SMC.MD.1	.2-2.b Estimate liquid volumes and masses of objects using standard units
					3 SMC MD 1	2-3.c Solve one-step word problems involving masses or volumes that are given in the same units
MC.MD.	.2 Represent a	and interpret da	ıta.			20.0 Solve one step word problems involving masses of volumes that are given in the same units
MC.MD.	.2 Represent a	and interpret da	ta.			
MC.MD.	.2 Represent a	and interpret da	ita.		3.SMC.MD.2	1-1.c Draw a scaled picture graph to represent a data set with several categories
MC.MD	.2 Represent a	and interpret da	ita.		3.SMC.MD.2	2.1-1.c Draw a scaled picture graph to represent a data set with several categories 2.1-2.c Draw a scaled bar graph to represent a data set with several categories
MC.MD	.2 Represent a	and interpret da	ita.		3.SMC.MD.2 3.SMC.MD.2	2.1-1.c Draw a scaled picture graph to represent a data set with several categories 2.1-2.c Draw a scaled bar graph to represent a data set with several categories 3.2 Solve one and two-step "how many more" and "how many less" problems using information
MC.MD	.2 Represent a	and interpret da	ata.		3.SMC.MD.2	2.1-1.c Draw a scaled picture graph to represent a data set with several categories 2.1-2.c Draw a scaled bar graph to represent a data set with several categories 3.2 Solve one and two-step "how many more" and "how many less" problems using information
MC.MD	.2 Represent a	and interpret da	ita.		3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2	2.1-1.c Draw a scaled picture graph to represent a data set with several categories 2.1-2.c Draw a scaled bar graph to represent a data set with several categories 3.2 Solve one and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs
MC.MD.	.2 Represent a	and interpret da	ita.		3.SMC.MD.2 3.SMC.MD.2	2.1-1.c Draw a scaled picture graph to represent a data set with several categories 2.1-2.c Draw a scaled bar graph to represent a data set with several categories 3.1-3.c Solve one and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs 3.1-3.c Measure lengths using rulers marked with halves and fourths of an inch
SMC.MD	2 Represent a	and interpret da	ita.		3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2	2.1-1.c. Draw a scaled picture graph to represent a data set with several categories 2.1-2.c. Draw a scaled bar graph to represent a data set with several categories 3.1-3.c. Solve one and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs 3.1-3.c. Measure lengths using rulers marked with halves and fourths of an inch 4.2-1.a. Make a line plot using lengths, measured by a ruler, where the horizontal scale is marked off
				of area and relate ar	3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2	2.1-1.c Draw a scaled picture graph to represent a data set with several categories 2.1-2.c Draw a scaled bar graph to represent a data set with several categories 3.1-3.c Solve one and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs 3.1-3.c Measure lengths using rulers marked with halves and fourths of an inch 4.2-1.a Make a line plot using lengths, measured by a ruler, where the horizontal scale is marked off in appropriate units
				of area and relate an	3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2	2.1-1.c Draw a scaled picture graph to represent a data set with several categories 2.1-2.c Draw a scaled bar graph to represent a data set with several categories 3.1-3.c Solve one and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs 3.2-1.a Measure lengths using rulers marked with halves and fourths of an inch 4.2-2.c Make a line plot using lengths, measured by a ruler, where the horizontal scale is marked off in appropriate units
				of area and relate ar	3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2	2.1-1.c Draw a scaled picture graph to represent a data set with several categories 2.1-2.c Draw a scaled bar graph to represent a data set with several categories 3.1-3.c Solve one and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs 3.2-1.a Measure lengths using rulers marked with halves and fourths of an inch 4.2-2.c Make a line plot using lengths, measured by a ruler, where the horizontal scale is marked off in appropriate units
				of area and relate ar	3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2	2.1-1.c Draw a scaled picture graph to represent a data set with several categories 2.1-2.c Draw a scaled bar graph to represent a data set with several categories 3.1-3.c Solve one and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs 3.2-1.a Measure lengths using rulers marked with halves and fourths of an inch 4.2-2.c Make a line plot using lengths, measured by a ruler, where the horizontal scale is marked off in appropriate units 5.1-1.a Relate area to attributes of plane figures
				of area and relate ar	3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2	2.1-1.c. Draw a scaled picture graph to represent a data set with several categories 2.1-2.c. Draw a scaled bar graph to represent a data set with several categories 2.1-3.c. Solve one and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs 2.1-3.c. Measure lengths using rulers marked with halves and fourths of an inch 3.1-1.a. Make a line plot using lengths, measured by a ruler, where the horizontal scale is marked of in appropriate units 3.1-1.a. Relate area to attributes of plane figures 3.1-2.a. Identify concepts of area measurement
				of area and relate ar	3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.3 3.SMC.MD.3	2.1-1.c. Draw a scaled picture graph to represent a data set with several categories 2.1-2.c. Draw a scaled bar graph to represent a data set with several categories 3.1-3.c. Solve one and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs 3.1-3.c. Measure lengths using rulers marked with halves and fourths of an inch 4.2-2.c. Make a line plot using lengths, measured by a ruler, where the horizontal scale is marked of in appropriate units 4.1-1.a. Relate area to attributes of plane figures 4.1-2.a. Identify concepts of area measurement
				of area and relate an	3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.3 3.SMC.MD.3 3.SMC.MD.3	2.1-1.c. Draw a scaled picture graph to represent a data set with several categories 2.1-2.c. Draw a scaled bar graph to represent a data set with several categories 2.1-3.c. Solve one and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs 2.1-3.c. Measure lengths using rulers marked with halves and fourths of an inch 3.1-1.a. Make a line plot using lengths, measured by a ruler, where the horizontal scale is marked off in appropriate units 3.1-1.a. Relate area to attributes of plane figures 3.1-2.a. Identify concepts of area measurement
				of area and relate ar	3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.3 3.SMC.MD.3 3.SMC.MD.3 3.SMC.MD.3	2.1-1.c Draw a scaled picture graph to represent a data set with several categories 2.1-2.c Draw a scaled bar graph to represent a data set with several categories 3.1-3.c Solve one and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs 3.2-1.a Measure lengths using rulers marked with halves and fourths of an inch Make a line plot using lengths, measured by a ruler, where the horizontal scale is marked off in appropriate units 3.1-1.a Relate area to attributes of plane figures 3.1-2.a Identify concepts of area measurement 3.2-3.a Measure areas by counting unit squares 3.3-1.a Find the area of a rectangle with whole-number side lengths
				of area and relate an	3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.2 3.SMC.MD.3 3.SMC.MD.3 3.SMC.MD.3 3.SMC.MD.3	2.1-1.c. Draw a scaled picture graph to represent a data set with several categories 2.1-2.c. Draw a scaled bar graph to represent a data set with several categories 3.1-3.c Solve one and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs 3.1-3.c Measure lengths using rulers marked with halves and fourths of an inch 4.2-1.a Make a line plot using lengths, measured by a ruler, where the horizontal scale is marked of in appropriate units 4.1-1.a Relate area to attributes of plane figures 4.1-2.a Identify concepts of area measurement 4.2-2.a Measure areas by counting unit squares



								3.SMC.MD.3.3-4.c	Show that the area of a rectangle with whole-number side lengths a and b + c is the sum of a $\times$ b and a $\times$ c
								3.3IVIC.IVID.3.3-4.C	Use models to represent the distributive property in finding the area of a rectangle with
								3.SMC.MD.3.3-5.c	whole-number side lengths
									Decompose the area of rectilinear figures into non-overlapping rectangles
									Show that the area of rectangles is additive
								3.SMC.MD.3.3-8.c	Add the areas of non-overlapping rectangular parts
								3.SMC.MD.3.3-9.c	Solve real world problems by adding the areas of non-overlapping rectangular parts
3.SMC.MD	4 Geometric	measuremen	t: recognize ¡	perimeter as	an attribute o	f plane figu		guish between linear	
								3 SMC MD 4 1-1 c	Solve real world and mathematical problems calculating perimeters of polygons
									Solve real world and mathematical problems by exhibiting rectangles with the same
								3.SMC.MD.4.1-2.c	perimeter and different areas
									Solve real world and mathematical problems by exhibiting rectangles with the same area and
								3.SMC.MD.4.1-3.c	different perimeters
					ı			Strand: Geometry (G)	
3.SMC.G.1	Reason with:	shapes and t	heir attribute	ıs.				,,,,	
	1	1	1	1					In the state of th
								2 5 4 6 6 6 6 6 1 1 1	Recognize that shapes in different categories may share attributes, and that the shared
	1							3.SMC.G.1.1-1.b	attributes can define a larger category
								3.SMC.G.1.1-2.b	Identify examples of quadrilaterals including rhombuses, rectangles, and squares
								3.SMC.G.1.1-3.b	Draw examples of quadrilaterals that are not rhombuses, rectangles, and squares
								3.SMC.G.1.2-1.c	Partition shapes into parts with equal areas
								3.SMC.G.1.2-2.c	Express the area of equally partitioned parts as a unit fraction of the whole
						DOMA	IN: Standa	ards for Mather	matical Practices
							Stra	nd: Solve Problems (N	NP1)
3.SMP.1 1.	Make sense	of problems a	and persevere	in solving th	nem.				
	I							3.SMP.1.c	Make sense of problems and persevere in solving them
	<u>I</u>		l.					Strand: Reason (MP2)	
2 CMD 2 2	Daggar abete	anthu and mu					<u> </u>	Straina. Neuson (ivii 2)	
3.5IVIP.Z Z.	Reason abstr	actiy and qua	antitatively.						
								3.SMP.2.c	Reason abstractly and quantitatively
							Strand:	Construct Arguments	s (MP3)
3.SMP.3 3.	Construct via	ble argumen	ts and critiqu	e the reason	ing of others.				
								3.SMP.3.c	Construct viable arguments and critique the reasoning of others
		•	•	•				Strand: Model (MP4)	<u> </u>
3.SMP.4 4.	Model with n	nathematics.							
								3.SMP.4.c	Model with mathematics
								trand: Use Tools (MP5	
3.SMP.5 5.	Use appropri	ate tools stra	itegically.						
	1		, , ,					3.SMP.5.c	Use appropriate tools strategically
	<u> </u>		<u> </u>					: Attend to Precision	,,,,
2 CMAD C C	A + + 1 + -						эцапо	Attenu to Precision	inir vj
3.SIVIP.6 6.	Attend to pre	cision.	,						
		L		L				3.SMP.6.c	Attend to precision
							Stra	and: Use Structure (M	P7)
3.SMP.7 7.	Look for and	make use of	structure.						
								3.SMP.7.c	Look for and make use of structure
							Strano	d: Express Regularity (	(MP8)
3.SMP.8 8.	Look for and	express regu	larity in repe	ated reasoni	ng.				
	1		1					3.SMP.8.c	Look for and express regularity in repeated reasoning
	<u> </u>	1	1	1	l		<u> </u>	J.JIVII .U.L	Leon for and express regularity in repeated reasoning