Quarter 1			
Standards for Mathematical Practice 2-3 Standards for Mathematical Practice Posters			
1. Make sense of problems and persevere in solving them 5. Use appropriate tools strategically			5. Use appropriate tools strategically
2. Reason abstra	ctly and quantit	atively	6. Attend to precision
3. Construct viab	ole arguments ar	nd reasoning of others	7. Look for and make use of structure
4. Model with ma	athematics		8. Look for and express regularity in repeated reasoning
CC.2.3.3.A.1 Io	dentify, comp	are and classify shapes a	nd their attributes (PA Core – NWEA)
Geometry	3.G.A.1	Understand that shapes in different categories (e.g. rhombuses, rectangles and other) may share attributes (e.g. having four sides) and that the shared attributes can define a larger category (e.g. quadrilaterals).	
	3.G.A.1.A	Recognize rhombuses, rec draw examples of quadrila subcategories.	tangles and squares as examples of quadrilaterals and aterals that do not belong to any of these
CC.2.4.3.A.2 Tell and write time to the nearest minute and solve problems by calculating time intervals (<i>PA Core-NWEA</i>)			
Measurement and Data	3.MD.A.1	Tell and write time to the minutes. Solve word proble intervals in minutes.	nearest minute and measure time intervals in ems involving addition and subtraction of time
		Solve elapsed-time word pa and minutes.	roblems involving counting backward by both hours
		Solve elapsed-time word pr minutes.	roblems involving counting forward by both hours and
CC.2.1.3.B.1 Apply place value understanding and properties of operations to perform multi-digit arithmetic (PA Core – NWEA)			
	3.NBT.1	Identify, recognize and write value.	ite numbers through the hundred thousand place

Number and	3.NBT.2	Record whole numbers using words.
Operations in Base 10	3.NBT.3	Compare and order whole numbers.
	3.NBTA.1	Use place value understanding to round whole numbers to the nearest 10 or 100.
	3.NBT.A.2	Fluently add and subtract within 1000 using a range of strategies and algorithms
		based on place value, properties of operations and/or the relationship between
		addition and subtraction.
CC.2.4.3.A.3 S	olve problems	involving money using a combination of coins and bills (PA Core –
NWEA)		
Measurement	(PA Core	Compare total values of combinations of coins (penny, nickel, dime and quarter)
and Data	only No	and/or dollar bills less than \$5.00.
	CCSS	Make change for an amount up to \$5.00 with no more than \$2.00 change given
	Standard)	(penny, nickel, dime, quarter and dollar).
		Round amounts of money to the nearest dollar.

Quarter 2				
Standards for Mathematical Practice				
1. Make sense of problems and persevere in solving them 5. Use appropriate tools strategically				
2. Reason abstrac	tly and quantit	atively	6. Attend to precision	
3. Construct viab	le arguments ai	nd reasoning of others	7. Look for and make use of structure	
4. Model with ma	thematics		8. Look for and express regularity in repeated reasoning	
CC.2.2.3.A.2 Understand properties of multiplication and the relationship between multiplication and division (PA Core- NWEA)				
Operations	3.OA.B.5	Apply properties of operations as strategies to multiply and divide.		
and Algebraic Thinking	3.OA.B.6	Understand division as an unknown-factor problem.		
CC.2.4.3.A.4 R	epresent and	interpret data using tai	lly charts, tables, pictographs, line plots and bar	
graphs (PA Co	re – NWEA)			
Measurement 3.MD.3 and Data		Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs. For example, draw a bar graph in which each square in the bar graph might represent 5 pets.		
	3.MD.4	Generate measurement d halves and fourths of an i horizontal scale is marke quarters.	ata by measuring lengths using rulers marked with nch. Show the data by making a line plot, where the d off in appropriate units-whole numbers, halves or	
CC.2.2.3.A.3 Demonstrate multiplication and division fluency within 100 (PA Core – NWEA)				
Operations and Algebraic Thinking	3.OA.C.7	Fluently multiply and div relationship between mul By the end of Gr. 3 know *Required Fluency for	ride within 100, using strategies such as the tiplication and division. from memory all products of two one-digit numbers Grade 3 *	

CC.2.2.3.A.1 R	epresent and	solve problems involving multiplication and division (PA Core – NWEA)
Operations and Algebraic Thinking	3.0A.A.1	Interpret products of whole numbers.
	3.OA.A.2	Interpret whole-number quotients of whole numbers.
	3.OA.A.3	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays and measurement quantities.
	3.OA.A.4	Determine the unknown whole number in a multiplication or division equation relating three whole numbers.
CC.2.1.3.B.1 Apply place value understanding and properties of operations to perform multi-digit arithmetic (PA Core – NWEA)		
Numbers and	3.NBT.A.3	Multiply one-digit whole numbers by multiples of 10 in the range 10-90 using
Operations in Base Ten		strategies based on place value and properties of operations.

Quarter 3			
Standards for Mathematical Practice 2-3 Standards for Mathematical Practice Posters			
1. Make sense of problems and persevere in solving them			5. Use appropriate tools strategically
2. Reason abstractly and quantitatively			6. Attend to precision
3. Construct viabl	le arguments and	reasoning of others	7. Look for and make use of structure
4. Model with mathematics			8. Look for and express regularity in repeated reasoning
CC.2.4.3.A.5 Determine the area of a rectangle and apply the concept to multiplication and addition (PA Core – NWEA)			
Measurement and Data	3.MD.C.5	Recognize area as an attribute of plane figures and understand concepts of area measurement.A square with a side length 1 unit, called "a unit square", is said to have "one square unit" of area and can be used to measure area.	
	3.MD.C.5.A		
·	3.MD.C.5.B	A plane figure which can be covered without gaps or overlaps by <i>n</i> unit squares is said to have an area of n square units.	
	3.MD.C.6	Measure areas by countin square ft, and improvised	ng unit squares (square cm, square m, square in, l units).
	3.MD.C.7	Relate area to the operat	ions of multiplication and addition.
	3.MD.C.7.A	Find the area of a rectang show that the area is the	gle with whole-number side lengths by tiling it and same as would be found by multiplying side lengths.
	3.MD.C.7.B	Multiply side lengths to d lengths in the context of s	letermine areas of rectangles with whole number side solving real world and mathematical problems.
	3.MD.C.7.C	Use tiling to show in a co number side lengths a an to represent the distribut	ncrete case that the area of a rectangle with whole ad b + c is the sum of a x b and a x c. Use area models live property in mathematical reasoning.

	3.MD.C.7.D	Recognize areas as additive. Find areas of rectilinear figures by decomposing them into non-overlapping rectangles and adding the areas of the non- overlapping parts, applying this technique to solve real world problems.		
CC.2.2.3.A.4 So arithmetic (PA	olve problems (A Core -NWEA)	involving the four operations and identify and explain patterns in		
Operations and Algebraic Thinking	3.OA.D.8	Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. e.g., (n,a,x)		
	3.OA.D.8.A	Assess the reasonableness of answers using mental computation and estimation strategies including rounding.		
	3.OA.D.9	Identify arithmetic patterns (including patterns in the addition table or multiplication table) and explain them using properties and operations.		
CC.2.2.3.A.3 D	CC.2.2.3.A.3 Demonstrate multiplication and division fluency within 100 (PA Core-NWEA)			
Operations and Algebraic Thinking	3.OA.C.7	Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division.		
		By the end of Gr. 3 know from memory all products of two one-digit numbers *Required Fluency for Grade 3*		
CC.2.4.3.A.6 So	olve problems a	involving perimeters of polygons and distinguish between linear and		
area measures	s (PA Core – N	WEA)		
Measurement and Data	3.MD.D.8	Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length given the perimeter and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.		

Quarter 4			
Standards for Mathematical Practice 2-3 Standards for Mathematical Practice Posters			
1. Make sense of problems and persevere in solving them			5. Use appropriate tools strategically
2. Reason abstractly and quantitatively			6. Attend to precision
3. Construct viab	le arguments and	reasoning of others	7. Look for and make use of structure
4. Model with ma	thematics		8. Look for and express regularity in repeated reasoning
СС.2.1.3.С.1 E	xplore and dei	elop an understanding	of fractions as numbers (PA Core -NWEA)
Number and Operations Fractions	3.NF.A.1	Understand a fraction 1/b as the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fraction a/b as the quantity formed by <i>a</i> parts of a size 1/b.	
	3.NF.A.2	Understand a fraction as number line diagram.	a number on the number line; represent fractions on a
	3.NF.A.2.A	Represent a fraction 1/b o 0 to 1 as the whole and p part has size 1/b and that number 1/b on the number	on a number line diagram by defining the interval from artitioning it into b equal parts. Recognize that each t the endpoint of the part based at 0 locates the er line
	3.NF.A.2.B	Represent a fraction a/b o 1/b from 0. Recognize tha endpoint locates the num	on a number line diagram by marking off "a" lengths at the resulting interval has size a/b and that its aber a/b on the number line.
	3.NF.A.3	Explain equivalence of fr reasoning about their siz	actions in special cases and compare fractions by e.
	3.NF.A.3.A	Understand two fractions same point on a number	s as equivalent (equal) if they are the same size, or the line.
	3.NF.A.3.B	Recognize and generate s are equivalent, e.g., by us	simple equivalent fractions. Explain why the fractions sing a visual fraction model.

Not all content in a given grade is emphasized equally in the Standards. Some clusters require greater emphasis than others based on the depth of the ideas, the time they take to master and/or their importance to future mathematics or the demands of college and career readiness. More time in these areas is also necessary for students to meet the Standards for Mathematical Practice (SMP). To say that some things have greater emphasis is not to say that anything in the Standards can safely be neglected in instruction. Neglecting material will leave gaps in student skill and understanding and may leave students unprepared for the challenges of a later grade. <u>https://achievethecore.org/</u>

	2.NF.A.3.C	Express whole numbers as fractions and recognize fractions that are equivalent to whole numbers.		
	3.NF.A.3.D	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 results of comparison with the symbols <, =, >. Justify the conclusions, e.g., by using a visual fraction model.		
CC.2.4.3.A.1 Se	olve problems	involving measurement and estimation of temperature, liquid volume,		
mass and leng	th (PA Core-N	(WEA)		
Measurement and Data	3.MD.A.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 one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings to represent the problem		
CC.2.2.3.A.3 D	CC.2.2.3.A.3 Demonstrate multiplication and division fluency within 100 (PA Core-NWEA)			
Operations and Algebraic	3.OA.C.7	Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division.		
Thinking		By the end of Gr. 3 know from memory all products of two one-digit numbers		
		Required Fluency for Grade 3		
CC.2.3.3.A.2 Use the understanding of fractions to partition shapes into parts with equal areas and				
express the area of each part as a unit fraction of the whole. (PA Core-NWEA)				
Geometry	3.G.A.2	Partition shapes into parts with equal areas. Express the area of each part as a		

unit fraction of the whole.