Sand Springs Public Schools
Fourth Grade Math PASS Standards/Common Core

1st Six Weeks

First six weeks PASS Standards	First six weeks Common Core
August: Review 3rd grade skills	
4.2 Determine correct change from a $20.00 bill	MD.2 Solve problems involving money using the four
	operations
	NBT.4 Fluently add or subtract multi-digit whole numbers
	using the standard algorithm.
	OA.3 Solve multi-step word problems involving addition
	and subtraction.
September:	
2.1a Apply concept of place value through	NBT.1 Generalize place value for multi-digit numbers
hundred thousands place	Recognize that a digit in the ones place represents
(expanded form, word form. Standard)	ten times what it represents in the tens.
2.1b Compare and order whole numbers through	NBT.2 Read and write multi-digit whole numbers using
hundred thousands place	base-ten numerals, number names, and
2.1a Model, read, write and rename decimals to	expanded form.
the hundredths.	NBT.2 Use greater than, less than, equal to signs to
2.1b Compare and order decimals to the	compare numbers
hundredth place.	(In this domain, numbers are limited to 1,000,000)
	NF.6 Use decimal notation for fractions with
	denominators 10 or 100.
	NF.7 Compare two decimasl to hundredths by reasoning
	about their size. Use <, >, = symbols to compare.
	NBT.3 Use place value understanding to round
	multi-digit whole numbers to any place.

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2nd Six Weeks

Second six weeks PASS Standards	Second six weeks Common Core
October: Multiplication	
2.2 Estimate and find the product of up to	OA.1 Interpret a multiplication equation as a
3 digit by 3 digit using a variety of strategies	comparison.
1.3 Recognize and apply the associative	OA.2 Multiply to solve word problems involving
property of multiplication	multiplicative comparison.
	OA.3 Solve multi-step word problems involving
	multiplication
	NBT.5 Multiply a whole number of up to four digits by
	a one digit whole number, and multiply two, two
	digit numbers using strategies of place value and
	properties of operations. Illustrate and explain
	using arrays, equations, and/or area models.
	OA.4 Find all the factor pairs for a whole number in the
	range 1-100. Recognize that a whole number is a
	multiple of each of its factors. Determine
	whether a given number is a multiple of a given
	one-digit number.
November: Division	NBT.6 Find whole-number quotients and remainders
2.1i Demonstrate fluency with division facts	with up to four-digit dividends and one-digit
2.1ii Estimate the quotient with 1 or 2 digit	divisors, using strategies based on place value,
divisors and 2 and 3 digit dividends.	properties of operations, and the relationship
	between multiplication and division. Illustrate
	using area models, arrays, and equations.
	OA.3 Solve multi-step word problems involving
	division including problems where remainders
	must be interpreted.

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3rd Six Weeks

Third six weeks PASS Standards	Third six weeks Common Core
November: Division continued	NBT.6 Find whole-number quotients and remainders
2.2iii Find the quotient with and without	with up to four-digit dividends and one-digit
remainders with 1 digit divisors and	divisors, using strategies based on place value,
2 or 3 digit dividend	properties of operations, and the relationship
	between multiplication and division. Illustrate
	using area models, arrays, and equations.
	OA.3 Solve multi-step word problems involving
	division including problems where remainders
	must be interpreted.
	(Continued from 2nd six weeks period)
December: Patterns	
1.1 Discover, describe, extend and create	OA.5 Generate a number or shape pattern that follows a
a variety of patterns using tables, graphs,	given rule. Identify apparent features of the pattern
rules, and models.	that were not explicit in the rule.
1.2 Find variables by solving open sentence	OA.2 Use the four operations with whole numbers to solve
equations and other problems involving	problems. Use equations with symbol for the
addition, subtraction, multiplication and	unknown number to solve problem. Multiply or
division with whole numbers.	divide to solve word problems involving multiplicative
	comparison
	OA.3 Use the four operations with whole numbers to
	solve multistep word problems. Represent these
	problems using equations with a letter standing for
	the unknown quantity.

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4th Six Weeks

Fourth six weeks PASS Standards	Fourth six weeks Common Core
January : Fractions/Decimals	
2.1b Compare, add and subtract fractional parts (with like denominators) using physical and pictorial models.	NF.1 Explain why a fraction a/b is equivalent to a fraction (n x a)/n x b) by using a visual fraction model. Use this principle to generate equivalent fractions.
2.1b Use 0, 1/2, 1 or .5 as benchmarks on a numberline and place additional fractions, decimals, and percents on the numberline.	NF.2 Compare two fractions with different denominators and different numerators. Use <, >, = to compare fractions.
	NF.3 Understand a fraction a/b with a > 1 as a sum of fractions 1/b.
	NF.3a Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.
	NF.3b Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each decomposition with an equation.
	NF.3c Add and subtract mixed numbers with like denominators.
	NF.3d Solve word problems involving addition and subtraction of fractions with like denominators.
	NF.4 Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.
	NF.5 Express a fraction with a denominator 10 as an equivalent fraction with denominator 100 and use this technique to add two fractions with respective denominators 10 and 100.

4th Six Weeks - continued

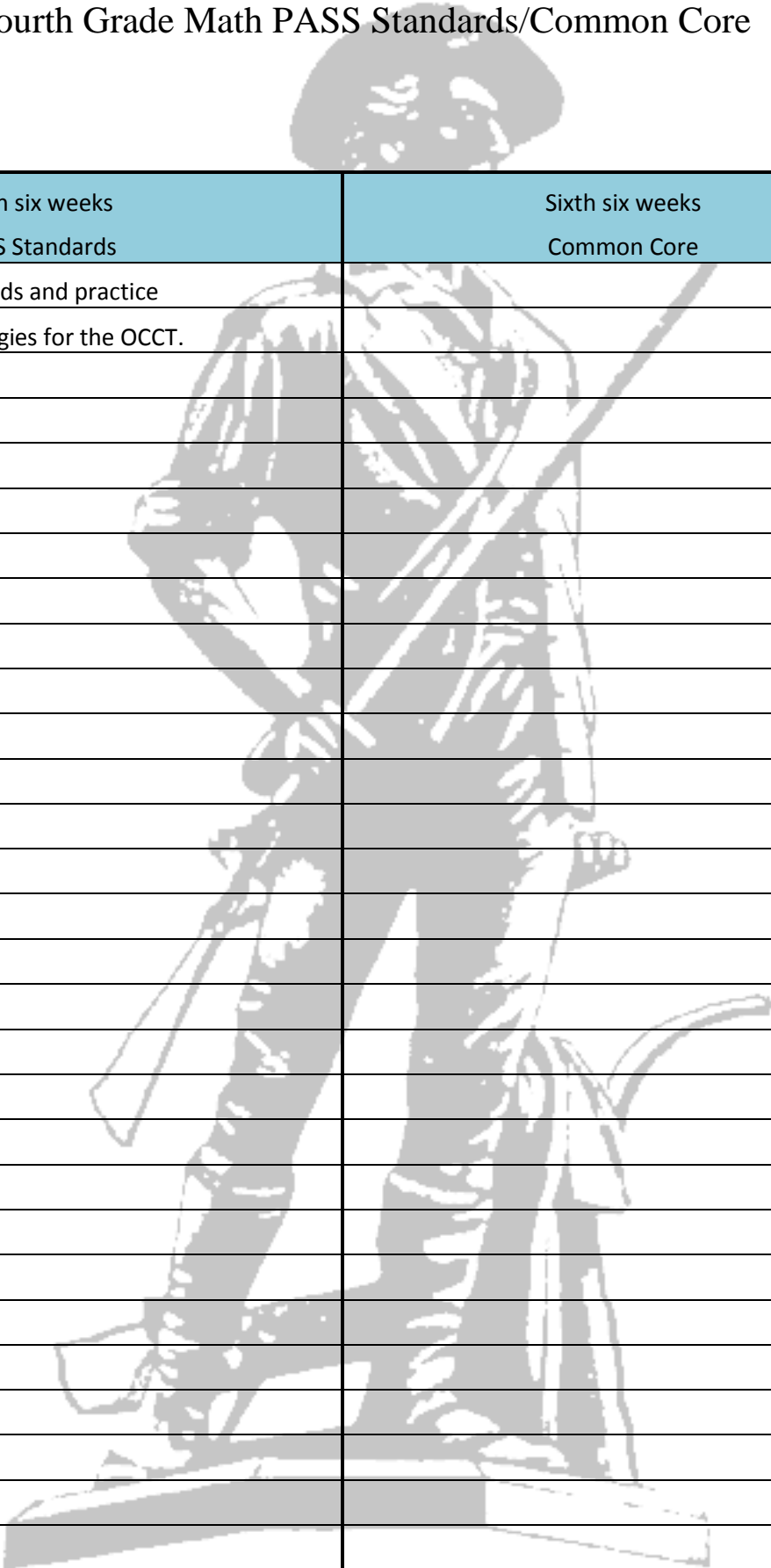| Fourth Six weeks continued	
February: Geometry	
3.1 Identify, draw, and construct models of intersecting, parallel, and perpendicular lines.	MD.5 Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint.
3.2 Identify and compare angles equal to, less than, or greter than 90 degrees	MD.6 Measure angles in whole-number degrees using a protractor. Sketch angles of specific measure.
	MD.7 Recognize angle measure as additive. When an
	angle is decomposed into non-overlapping parts,
	the angle measure of the whole is the sum of the
	angle measures of the parts. Solve addition and
	subtraction problems to find the unknown angles
	on a diagram in real world and mathematical
	problems.
	G.1 Draw points, lines and line segments, rays, angles,
	and perdendicular and parallel lines. Identify these
	in 2-dimensional figures.
	G.2 Classify 2-dimensional figures based on the presence
	or absence of parallel or perpendicular lines, or the
	presence or absence of angles of a specified size.
	Recognize right triangles as a category and identify
	right triangles.
	G.3 Recognize the line of symmetry for a 2-dimensional
	figure as a line across the figure such that the figure
	can be folded along the line into matching parts.
	Identify line-symmetric figures and draw lines of
	symmetry.

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5th Six Weeks

Fifth Six Weeks PASS Standards	Fifth six weeks Common Core
February: Geometry Continued	G.2 Classify 2-dimensional figures based on the presence
3.3 Identify, draw, and construct models of	or absence of parallel or perpendicular lines, or the
regular and irregular polygons including	presence or absence of angles of a specified size.
triangles, quadrilaterals, pentagons,	Recognize right triangles as a category and identify
hexagons, heptagons, and octagons	right triangles.
3.4 Describe the effects on a 2-Dimensional	G.3 Recognize the line of symmetry for a 2-dimensional
object when they slide, flip or turn.	figure as a line across the figure such that the figure
March: Measurement	can be folded along the line into matching parts.
4.1 Estimate the measure of a variety of	Identify line-symmetric figures and draw lines of
items using customary units	symmetry.
4.1 Establish benchmarks for metric units	
estimate the measure of a variety of objects.	Measurement:
4.1 Select appropriate customary and metric	MD.1 Know the relative size of measurement units
units and measure and measurement	within one systems of units including km, m, cm, kg,
instruments to solve problems involving	g, lb, oz, l, ml, hr, min, sec. Convert larger units to
length, width, volume, mass and area.	smaller units. (ie one foot is 12 inches)
4.1 Develop and use the concept of area of	MD.2 Use the four operations to solve word problems
different shapes using a grid.	involving distance, intervals of time, liquid,
4.2 Solve problems with elapsed time.	volume, mass, and money including problems that
4.2 Read thermometers using different	involve simple fractions or decimals and problems
intervals and solve for temp. change.	that require expressing measurements given in a
instruments to solve problems involving	larger unit in smaller unit.
length, width, volume, mass and area.	MD.3 Apply the area and perimeter formulas to
	rectangles in real world and mathematical problems.
March: Graphing and Probabilty	
5.1 Read and Interpret graphs	MD. 4 Make a line plot to display a data set of measure-
5.2 Predict probabilty of outcomes	ments in fractions of a unit. Solve problems involving
5.3 Determine the median and mode of a	addition and subtraction of fractions by using info
set of data.	in the line plots

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6th Six Weeks

Sixth six weeks PASS Standards	Sixth six weeks Common Core
April: Review all standards and practice test-taking strategies for the OCCT.	