

**Phenix City Schools**  
**2017-2018**  
**4<sup>th</sup> grade Math Pacing Guide**

<b>Unit 1</b>	<b>Sessions</b>	<b>Time Frame</b>	<b>CCSS</b>	<b>Vocabulary</b>
Arrays, Factors, and Multiplicative Comparison		August 10 <sup>th</sup> – 30 <sup>th</sup>	4OA1-4	Array Composite Dimension Factor Multiple Multiplication Prime Product Square number
Representing Multiplication with Arrays	Investigation 1 1.1-1.8	8 Days	Assess 4OA1	
Finding Factors	Investigation 2 2.1-2.4	5 Days	Assess 4OA4	

<b>Unit 2</b>	<b>Sessions</b>	<b>Time Frame</b>	<b>CCSS</b>	<b>Vocabulary</b>
Generating and Representing Measurement and Data		August 31 <sup>st</sup> – September 15 <sup>th</sup>	4MD1-2, 4	Bar graph Data Line plot Outlier Range
Modeling with Data	Investigation 1 1.1-1.5	5 Days	Assess 4MD4	
Using Data to Compare	Investigation 2 2.1-2.6	5 Days		

<b>Unit 3</b>	<b>Sessions</b>	<b>Time Frame</b>	<b>CCSS</b>	<b>Vocabulary</b>
Multiple Towers and Cluster Problems		September 18 <sup>th</sup> – October 12 <sup>th</sup>	4OA1-4 4NBT5-6	Array Division Doubled Halved Factor Multiple Product Remainder
Breaking Apart Multiplication Problems	Investigation 1 1.1-1.5	5 Days		
Solving Division Problems	Investigation 2 2.1-2.6	4 Days	Assess 4OA2 (2-digit by 1-digit)	
Strategies for Multiplication	Investigation 3 3.1-3.7	7 Days	Assess 4NBT5 (2-digit by 1-digit)	

<b>Unit 4</b>	<b>Sessions</b>	<b>Time Frame</b>	<b>CCSS</b>	<b>Vocabulary</b>
Measuring and Classifying Shapes		October 13 <sup>th</sup> - November 16 <sup>th</sup>	4OA3 4NBT4.6 4MD1 -3, 5-7 4G1-3	Acute angle Angle Centimeter Degrees Feet Hexagon Inches Line linear Measurement Line of symmetry Line segment Meters Metric system Obtuse angle Parallel Parallelogram Perimeter Perpendicular Point Quadrilateral Ray Side Square unit Vertex Yard
Linear Measurements	Investigation 1 1.1-1.5	5 Days	Assess 4MD1	
Sorting and Classifying Polygons	Investigation 2 2.1-2.5	4 Days	Assess 4G1 and 4G2	
Measuring Angles	Investigation 3 3.1-3.4	4 Days	Assess 4MD5-7	
Symmetry and Area	Investigation 4 4.1-4.6	6 Days	Assess 4MD3 and 4G3	

<b>Unit 5</b>	<b>Sessions</b>	<b>Time Frame</b>	<b>CCSS</b>	<b>Vocabulary</b>
Large Numbers and Landmarks		November 27 <sup>th</sup> - January 12 <sup>th</sup>	4NBT1 – 4 4MD2 4OA3	Addition strategies Place value Subtraction strategies
Studying Addition	Investigation 1 1.1-1.6	6 Days	Assess 4NBT4 and 4OA3 (4 digit add, sub, multiply)	
Studying Subtraction	Investigation 2 2.1-2.7	7 Days		
Adding and Subtracting Large Numbers	Investigation 3 3.1-3.6	6 Days	Assess 4NBT1 and 4NBT2	

<b>Unit 6</b>	<b>Sessions</b>	<b>Time Frame</b>	<b>CCSS</b>	<b>Vocabulary</b>
Fraction Cards and Decimal Grids		January 16 <sup>th</sup> - February 27 <sup>th</sup>	4NBT1 4NF1-7 4MD2, 4	Decimal point Decimals Denominator Equivalent Fractions Numerator One hundredth One tenth Sixths Thirds Twelfths
Parts of Rectangles	Investigation 1 1.1-1.6	6 Days	Assess 4NF1	
Comparing Fractions and Decimals	Investigation 2 2.1-2.8	9 Days	Assess 4NF2, 4NF6, and 4NF7	
Adding and Subtracting Fractions and Decimals	Investigation 3 3.1-3.6	5 Days	Assess 4NF3	
Computation with Rational Numbers	Investigation 4 4.1-4.4	5 Days	Assess 4NF4	

<b>Unit 7</b>	<b>Sessions</b>	<b>Time Frame</b>	<b>CCSS</b>	<b>Vocabulary</b>
How Many Packages and Groups		February 28 <sup>th</sup> - April 6 <sup>th</sup>	4OA2-4 4NBT5-6 4MD1-2	Capacity Division Divisor Estimate Factor Mass Multiple Multiplication Remainder Weight
Multiplication with 2-Digit Numbers	Investigation 1 1.1-1.7	7 Days		
Strategies for Multiplication	Investigation 2 2.1-2.5	4 Days	Assess 4NBT5 (2-digit by 2-digit) and 4MD2	
Solving Division Problems	Investigation 3 3.1-3.6	6 Days	Assess 4NBT3&6  Assess 4OA3	

<b>Unit 8</b>	<b>Sessions</b>	<b>Time Frame</b>	<b>CCSS</b>	<b>Vocabulary</b>
Penny Jars and Towers		April 18 <sup>th</sup> – May 8 <sup>th</sup>	4OA3 4OA5 4MD2	Equation Expression Representation
Representing and Analyzing Patterns	Investigation 1 1.1-1.10	13 <sup>th</sup> Days	4OA5 part 1 4OA5 part 2	