CUMBERLAND COUNTY SCHOOL DISTRICT BENCHMARK ASSESSMENT CURRICULUM PACING GUIDE			
School: CCES	Subject: Math Grade: 4th		
Benchma	ark Assessment 1		
Instructional Timeline: 1-9 (1 <sup>st</sup> 9 weeks)			
Topic(s): Place Value, Addition, Subtraction, & Word Problems			
KCAS Standards	Learning Target (I Can Statement) Key Vocabulary		
	4.NBT.1 I can explain the value of expanded form word form		
<b>KY.4.NBT.1</b> Recognize in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right	each digit in a multidigit number as ten times: the place to its right. estimate: value: greater than:		
<b>KY.4.NBT.2</b> Represent and compare multi-digit whole numbers. <b>a.</b> Read and write multi-digit whole numbers using base-ten numerals, number names and expanded form.	multi-digit number in word, base thousands algorithm ten numerals and standard form. I variable less than equal,		
<b>KY.4.NBT.2.b</b> . Compare two multi-digit numbers based on meanings of the digit in each place, using >, =, and < symbols to record the results of comparisons.	can compare multi-digit numbers digit· regroup· base ten· sum· using· place value and record the difference· operations· comparison with symbols. 4.NTB.3 associative· distributive·		
<b>KY.4.NBT.3</b> Use place value understanding to round multi-digit whole numbers to any place.	I can explain how to use place commutative- value and what- digits to look for		
<b>KY.4.NBT.4</b> Fluently add and subtract multi-digit whole numbers using an algorithm.	to round a multi-digit number. 4.NTB.4 I can add multi-digit		
<b>KY.4.OA.3</b> Solve multistep problems. <b>a.</b> Perform operations in the conventional order when there are no parentheses to specify a particular order.	whole numbers using the standard algorithm. I can subtract multi-digit whole numbers· using		
<b>KY.4.OA.3.b</b> . Solve multistep word problems posed with whole numbers and having whole number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computations and estimation strategies including rounding.	the standard algorithm. 4.OA.3 I can solve multi-step word problems using· addition and subtraction.		

CUMBERLAND COUNTY SCHOOL DISTRICT BENCHMARK ASSESSMENT CURRICULUM PACING GUIDE			
School: CCES	Subject: Math	Grade: 4th	
Benchmark A	ssessment 2		
Instructional Timeline: 10-18 (2nd Weeks)			
Topic(s): Multiplication & Division			
KCAS Standards	Learning Target (I Can Statement)	Key Vocabulary	
	4.0A.1 I can interpret a	equation equal groups.	
<ul> <li>KY.4.OA.1 Interpret a multiplication equation as a comparison. Represent verbal statements of multiplicative comparisons as multiplication equations</li> <li>KY.4.OA.2 Multiply or divide to solve word problems involving multiplicative comparisons by using drawings and equations with a symbol for the unknown number to represent the problem, divide the problem.</li> </ul>	multiplication equation as a comparison. 4.OA.2 I can solve multiplication word problems by- using drawings and equations with a symbol for unknown properties. 4.OA.3 I can solve multi- step word problems and assess the reasonableness of answers using mental computation and estimation strategies. 4MD.3 I can investigate and use the formula for area and perimeter of rectangles. 4.NBT.5 I can multiply a whole number of up to four digits by a one-digit whole number, and I can multiply two, two-digit numbers using arrays, place value and properties of operations. 4.NBT.6 I can divide with a one-digit divisor and up to four digits in the dividend using place value, arrays and properties of operations. 4.0A.4 Less find cell forters.	strategy·formula area· perimeter· product· dividend· divisor· remainder· array· area model· tape diagram· factors· prime· composite· multiples· associative	
<ul><li>KY.4.OA.3 Solve multistep problems.</li><li>a. Perform operations in the conventional order when there are no parentheses to specify a particular order.</li></ul>		property- distributive property-	
<b>KY.4.OA.3.b.</b> Solve multistep word problems posed with whole numbers andhaving whole number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computations and estimation strategies including rounding.			
<ul> <li>KY.4.OA.4 Find factors and multiples of numbers in the range 1-100.</li> <li>a. Find all factor pairs for a given whole number.</li> <li>KY.4.OA.4.b. Recognize that a whole number is a multiple of each of its factors.</li> </ul>			
<b>KY.4.OA.4.c</b> . Determine whether a given whole number is a multiple of a given one-digit number.	for a whole number $\cdot$ in the range 1-100. I can determine if a whole number is a multiple of another		

<b>KY.4.OA.4.d</b> . Determine whether a given whole number is prime or composite.	number 1-100. I can determine if a number is a prime or· composite		
<ul> <li>KY.4.NBT.5 Multiply whole numbers</li> <li>Up to four digit number by a one-digit number</li> <li>Two-digit number by two-digit number</li> <li>Multiply using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays and/or area models.</li> </ul>	number 1-100.		
<ul> <li>KY.4.NBT.6 Divide up to four-digit dividends by one-digit divisors.</li> <li>Find whole number quotients and remainders using <ul> <li>strategies based on place value</li> </ul> </li> <li>the properties of operations <ul> <li>the relationship between multiplication and division</li> </ul> </li> <li>Illustrate and explain the calculation by using equations, rectangular arrays and/or area models.</li> <li>KY.4.MD.3 Apply the area and perimeter formulas for rectangles in real world and mathematical problems.</li> </ul>			
CUMBERLAND COUNTY SCHOOL DISTRICT BENCHMARK ASSESSMENT CURRICULUM PACING GUIDE			
School: CCES	Subject: Math	Grade: 4th	
Benchma	rk Assessment 3		
Instructional Timeline: 19-31 (3rd 9 Weeks)	the divid		
Topic(s): Fractions, Decimals, & Angle Measurement			
KCAS Standards	Learning Target (I Can Statement)	Key Vocabulary	
	4.NF.3: I can decompose a fraction into a	benchmark Compose	
<b>KY.4.OA.5</b> Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern not explicit in the rule itself	sum of fractions with the same denominators. 4.NF.4 I can represent a fraction as a multiple of a fraction and a	decompose· fraction· common denominator· alike· mixed number· equivalent·	
<b>KY.4.NF.1</b> Understand and generate equivalent fractions. <b>a.</b> Use visual fraction models to recognize and generate equivalent fractions that have different numerators/denominators even though they are the same size.	whole number. 4.NF.1 I can explain why fractions are equivalent using area models. 4.NF.2 I can compare two fractions with different numerators and different denominators. 4.NF.3 I can add and subtract fractions with common	denominator∙ numerator∙ whole∙ dot plot∙	

	denominators. I can solve word problems	
<b>KY.4.NF.1.b</b> . Explain why a fraction $a/b$ is equivalent to a fraction $(n \times a)/a$	involving addition and subtraction of	
$(n \times b).$	fractions. I can add and subtract mixed	
	numbers with like denominators 4.MD.4 I	
<b>KY.4.NF.2</b> Compare two fractions with different numerators and	can make a number line/line plot to order	
different denominators using the symbols <, =, or >. Recognize	and compare fractions. I can multiply a	
whole Justify the conclusions	fraction by a whole number.4.OA.5 I can	
	find and use a pattern to calculate the sum	
<b>KY.4.NF.3</b> Understand a fraction $a/b$ with $a > 1$ as a sum of fractions $1/b$ .	of all fractional parts between 0 and 1.	
a. Understand addition and subtraction of fractions as joining and	(4.OA.5) Unit 4 Decimal Fractions 4.NF.6 I	
Separating parts referring to the same whole.	can identify the tenths and hundredths	
<b>KY.4.NF.3.D</b> . Decomposing a fraction into a sum of fractions with the sar	place of a decimal. I can convert decimal	
decomposition by an equation. Justify decompositions.	notation for fractions and compare	
<b>KV 4 NE3 c</b> Add and subtract mixed numbers with like denominators	decimal fractions. 4.NF.5 I can express	
<b>IV ANE 2</b> d. Calve word problems involving addition and subtraction of	equivalent fractions with unlike	
<b>KY.4.NF.3.d.</b> Solve word problems involving addition and subtraction of fractions referring to the same whole and having like	denominators. 4.NF. / I can compare two	
denominators.	about their size. 4 MD 2 Leap use the four	
<b>KY 4 NF 4</b> Apply and extend previous understandings of multiplication	operations to solve word problems. Unit 5	
to multiply a fraction by a whole number.	Angle Measure 4 G 1 L can identify	
a. Understand a fraction $a/b$ as a multiple of $1/b$ .	examples of a point line line segments	
<b>KY.4.NF.4.b</b> . Understand a multiple of $a/b$ as a multiple of $1/b$ and use the	rays, perpendicular and parallel lines in	
understanding to multiply a fraction by a whole number.	two dimensional shapes. 4.MD.5 I can	
KY.4.NF.4.c. Solve word problems involving multiplication of a fraction by	recognize angles as geometric shapes that	
a whole number.	are formed where two rays share a	
<b>KY.4.NF.5</b> Convert and add fractions with denominators of 10 and 100.	common endpoint. 4.MD.6	
a. Convert a fraction with a denominator of 10 to an equivalent	I can measure angles using a protractor	
	and solve problems to find unknown	
<b>KY.4.NF.5.b</b> . Add two fractions with respective denominators 10 and 100	angles by using an equation. 4.MD.7 I can	
<b>KY.4.NF.6</b> Use decimal notation for fractions with denominators 10 or	solve addition and subtraction problems	
100.	Lo lind unknown angles by using an	
	a point line line cogmonte rays	
	a point, inte, inte segments, rays,	
	perpendicular, parallel lines, right angles,	

<b>KY.4.NF.7</b> Compare two decimals to hundredths.	acute angles, and obtuse angles in	
a. Compare two decimals to hundredths by reasoning about their size.	two-dimensional shapes. 4.G.2 I can classify two-dimensional shapes into	
	categories based on shape attributes.	
<b>KY.4.NF.7.b</b> . Recognize that comparisons are valid only when the two decimals refer to the same whole.	4.G.3 I can identify line-symmetric figures and define lines of symmetry.	
<b>KY.4.NF.7.c</b> . Record the results of comparisons with the symbols >, =, or and justify the conclusions.		
<b>KY.4.G.1</b> Draw points, lines, line segments, rays, angles (right, acute, obtuse) and perpendicular and parallel lines. Identify these in two dimensional figures.		
<b>KY.4.G.2</b> Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence of absence of angles of a specified size. Recognize right triangles as a category and identify right triangles.		
<b>KY.4.G.3</b> Identify lines of symmetry. <b>a.</b> Recognize a line of symmetry for a two-dimensional figure.		
<b>KY.4.G.3.b</b> . Identify line-symmetric figures and draw lines of symmetry.		
<b>KY.4.MD.5</b> Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint and understand concepts of angle measurement.		
<b>KY.4.MD.6</b> Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure.		
<b>KY.4.MD.7</b> Recognize angle measure as additive. When an angle is 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 unknown angles on a diagram in real world and mathematical problems.		
CUMBERLAND COUNTY SCHOOL DISTRICT BENCHMARK ASSESSMENT CURRICULUM PACING GUIDF		
School: CCES Subject: Math Grade: 4th		
Benchmark Assessment 4		
Instructional Timeline: 32-36 (4th 9 Weeks)		

Topic(s): Measurement & Data			
KCAS Standards	Learning Target (I Can Statement)	Key Vocabulary	
	4.MD.1 I can express metric length, mass	customary system of	
<ul> <li>KY.4.MD.1 Know relative size of measurement units (mass, weight, liquid volume, length, time) within one system of units (metric system, U.S. standard system and time).</li> <li>a. Understand the relationship of measurement units within any given measurement system.</li> </ul>	and capacity measurement in terms of a smaller unit. 4.MD.2 I can use addition and subtraction to solve multi-step word problems involving length, mass and capacity.	measurement customary unit- cup· gallon· metric· system of measurement· ounce· pint· pound· quart· metric unit·	
<b>KY.4.MD.1.b.</b> Within any given measurement system, express measurem in a larger unit in terms of a smaller unit.			
<b>KY.4.MD.1.c</b> . Record measurement equivalents in a two-column table.			
<ul> <li>KY.4.MD.2 Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects and money.</li> <li>a. Solve measurement problems involving whole number, simple fractions or decimals.</li> </ul>			
<b>KY.4.MD.2.b</b> . Solve problems that require converting a given measureme from a larger unit to a smaller unit within a common measurement system, such as 2 km = 2,000 m.			
<b>KY.4.MD.2.c</b> . Visually display measurement quantities using representation such as number lines that feature a measurement scale.			
<b>KY.4.MD.4</b> Use dot plots to analyze data to a statistical question. <b>a.</b> Identify a statistical question focused on numerical data.			
KY.4.MD.4.b. Make a dot plot to display a data set of measurements in fi	1		
<b>KY.4.MD.4.c</b> . Solve problems involving addition and subtraction of fraction presented in dot plots.			

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