SKILL-BASED MATH CHECKLIST
Grade 4

Name of Student_____

Name of Teacher_____ **Date Completed**_____

Please evaluate the student's skills in math based on the Common Core Standards below.

List some of the student's **strengths** in the classroom in the area of math:

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Operations and Algebraic Thinking

	Insufficient Skills	Skills Emerging	Skill Mastered	Not Yet Taught
Can demonstrate commutative property.				
Can write an equation more than one way.				
Can identify an example of commutative property.				
Can solve word problems using multiplication to find an unknown number in an equation.				
Can choose the best operation to solve a word problem.				
Can add multi-step word problems with missing digits.				
Can subtract multi-step word problems with missing digits.				
Can multiply multi-step word problems with missing digits.				
Can divide multi-step word problems with missing digits.				
Can review own work to see if it makes sense.				
Can explain the steps taken to solve a problem.				
Can find factor pairs and multiples of all whole numbers from 1-100.				
Can decide if a number from 1-100 is prime or composite.				
Can identify the rule for any number or shape pattern.				
Can apply and use the rule for any number or shape pattern.				
Can explain the rule for any number or shape pattern.				

Number and Operations in Base Ten

	Insufficient Skills	Skills Emerging	Skill Mastered	Not Yet Taught
Can identify the value of each digit in a multi-digit whole number up to one million.				
Can describe the structure of the base ten number system.				
Can read, write, and compare multi-digit whole numbers using >, =, and < symbols.				
Can write and explain the expanded form of multi-digit numbers.				
Can write and explain the word form of multi-digit numbers.				
Can write and explain the standard form for multi-digit numbers.				
Can represent the base-ten form of multi-digit numbers.				

Number and Operations in Base Ten (cont.)

	Insufficient Skills	Skills Emerging	Skill Mastered	Not Yet Taught
Can round multi-digit whole numbers to any place value up to one million.				
Can add numbers up to one million using an efficient method.				
Can subtract numbers up to one million using an efficient method.				
Can check answers using the inverse operation.				
Can multiply a number up to four digits by a one-digit number and explain how it was done.				
Can multiply a two-digit number by a two-digit number and explain how it was done.				
Can solve a multiplication problem in more than one way.				
Can construct a model of a multiplication problem by using equations, rectangular arrays, and/or area models.				
Can solve division problems with up to four-digit dividends and one-digit divisors.				
Can use equations, arrays, and/or area models to explain calculations.				

Number and Operations Fractions

	Insufficient Skills	Skills Emerging	Skill Mastered	Not Yet Taught
Can explain that a fraction is equal to another fraction by using hands-on tools (manipulatives) even though the numbers are different.				
Can create a number sentence to make equivalent fractions.				
Can determine if a fraction is greater than, less than, or equal to a well-known fraction, such as ½.				
Can create common denominators to compare two fractions.				
Can use >, <, and = symbols to compare two fractions.				
Can make a model to show understanding of comparisons of fractions.				
Can show and explain that fractions are parts of a whole that can be added and subtracted.				
Can break fractions and mixed numbers apart and explain that those parts add up to the original fraction or mixed number.				
Can add fractions and mixed numbers that have the same denominator.				
Can subtract fractions and mixed numbers that have the same denominator.				
Can use what is known about adding and subtracting fractions and mixed numbers to solve word problems through equations, pictures, or manipulatives.				
Can show multiplication through repeated addition of a fraction to make a whole number.				
Can multiply a fraction by a whole number.				
Can use fraction models and equations to represent a problem.				
Can solve word problems that include fractions and whole numbers.				
Can explain the difference between a whole number and a fraction.				

Number and Operations Fractions (cont.)

	Insufficient Skills	Skills Emerging	Skill Mastered	Not Yet Taught
Can change a fraction with a denominator of 10 to an equivalent fraction with a denominator of 100, and then add those two fractions.				
Can write a fraction with a denominator of 10 or 100 as a decimal.				
Can compare two decimals to the hundredths place by using symbols, such as <, >, and =, and be able to show how he/she got an answer.				

Measurement and Data

	Insufficient Skills	Skills Emerging	Skill Mastered	Not Yet Taught
Can solve problems involving measurement.				
Can convert measurements from one unit to another.				
Can use a diagram, such as a number line, to show measurement.				
Can use any of the four operations (+, -, x, ÷) to solve word problems.				
Can convert units of measurement.				
Can use fractions and decimals in word problems.				
Can find the area and perimeter of rectangles using a formula.				
Can find the missing length or width of a rectangle using the area formula.				
Can make a line plot using fractions.				
Can solve problems by using information on a line plot.				
Can identify angles as two rays that share a point.				
Can measure an angle in units called “degrees”.				
Can use fractions of a circle to measure an angle.				
Can count the number of one-degree turns to measure an angle.				
Can use a protractor to measure and draw angles.				
Can measure an angle.				
Can measure pieces of an angle to find the total degrees.				
Can find unknown angles using an equation.				

Geometry

	Insufficient Skills	Skills Emerging	Skill Mastered	Not Yet Taught
Can draw an identify points, lines, line segments, and rays in two-dimensional figures.				
Can draw and identify angles (acute, obtuse, and right) in two-dimensional figures.				
Can draw and identify parallel and perpendicular line segments in two-dimensional figures.				
Can group shapes based on the types of lines they have.				
Can group shapes based on the types of angles they have.				
Can tell the difference between right triangles and other triangles.				
Can identify a line of symmetry in a variety of figures.				
Can draw a line of symmetry.				