Jackson County Core Curriculum Collaborative (JC4)		
	5th Grade Math	
Standard	Learning Targets in Student Friendly Language	
5.OA.1	I can evaluate and write expressions that involve parentheses, brackets, and/or braces.	
	I can evaluate numerical expressions with parentheses, brackets, and/or braces.	
	I can write numerical expressions with parentheses, brackets, and/or braces.	
	I can write simple numerical expressions from verbal expressions without evaluating the	
5.OA.2	expression.	
	I can translate verbal expressions to numerical expressions.	
	I can translate numerical expressions to verbal expressions.	
	I can analyze expressions without solving.	
	I can describe the effect one number has on another number without performing the	
	operation.	
5.OA.3	I can analyze patterns based on relationships and operations.	
	I can construct an input/output table to form ordered pairs.	
	I can describe the relationship between two numerical patterns.	
	I can explain why the relationship between two numerical patterns on a graph exists.	
	I can generate two numerical patterns using two given rules.	
	I can graph ordered pairs on a coordinate plane.	
	I can identify the relationship between two numerical patterns on a graph.	
	I can write the rule for a pattern using a variable.	
5.NB1.1	I can explain the relationship between digits in different decimal places.	
	I can model place value showing that a digit in one place represents 10 times as much as it	
	represents in the place to its right.	
	in the place to its left	
	In the place to its left.	
5 NRT 2	as well as between the decimal point and multiplying/dividing by 10	
<b>J.ND1.2</b>	as well as between the declinal point and multiplying/dividing by 10.	
	I can explain the pattern in moving the decimal point when multiplying or dividing by powers of 10.	
	10	
	I can express powers of 10 using whole-number exponents	
	I can read write and explain decimals using base-ten numerals number names and expanded	
5.NBT.3.a	form to the thousandths place.	
	I can read and write decimals to the thousandths using base 10 numerals (347 = 3x10^2+	
	4x10^1+ 7x10^0).	
	I can read and write decimals to the thousandths using number names.	
	I can read and write decimals to the thousandths using expanded form (with fractions of 1/10,	
	1/100, and 1/1000 to denote decimal places).	
5.NBT.3.b	I can compare decimals using the symbols <, > and =.	
	I can compare two decimals to the thousandths using greater than, less than, and equal to	
	symbols.	
5.NBT.4	I can round decimals to any given place.	
	I can use my understanding of place value to round decimals to any place up to thousandths.	
	I can justify the reasonableness of a solution using estimation.	
5.NBT.5	I can fluently multiply multi-digit whole numbers.	

	I can explain the standard algorithm for multiplying multi-digit whole numbers.
	I can fluently multiply multi-digit whole numbers using the standard algorithm.
5.NBT.6	I can find quotients (up to 4-digit dividends and 2-digit divisors) using a variety of strategies.
	I can divide whole numbers with up to 4-digit dividends and 2-digit divisors.
	I can divide whole numbers with four-digit dividends and two-digit divisors using place value,
	rectangular arrays, area model, and/or other strategies.
	I can explain and illustrate the division process using equations, arrays, and/or models.
5.NBT.7	I can add, subtract, multiply, and divide decimals using a variety of strategies.
	I can add decimals through hundredths using strategies based on place value, properties of
	operations, and models or drawings to explain the reasoning.
	I can subtract decimals through hundredths using strategies based on place value, properties of
	operations, and models or drawings to explain the reasoning.
	I can multiply decimals through hundredths using strategies based on place value, properties of
	operations, and models or drawings to explain the reasoning.
	I can divide decimals through hundredths using strategies based on place value, properties of
	operations, and models or drawings to explain the reasoning.
	I can prove my calculations are correct and can explain my reasoning and solutions to decimal
	problems.
5.NF.1	I can add and subtract fractions and mixed numbers with unlike denominators.
	I can rewrite two fractions with unlike denominators to have common denominators in order to
	add or subtract fractions.
	I can solve addition and subtraction problems involving fractions (including mixed numbers)
	with like and unlike denominators using an equivalent fraction strategy.
	I can solve word problems involving addition and subtraction of fractions (with unlike
5.NF.2	denominators).
	I can use visual fraction models and/or equations to solve word problems involving adding and
	subtracting fractions with and without like denominators.
	I can justify the reasonableness of a solution using estimation and benchmark fractions.
	I can explain the relationship between fractions and division and use this relationship to solve
5.NF.3	word problems involving division and express my answers in fraction form.
	I can define a fraction as division of the numerator by its denominator.
	I can explain between what two whole numbers the fraction solution lies.
	I can solve word problems involving the division of two whole numbers where the solution is a
	fraction or mixed number.
	I can explain or illustrate my solution strategy using visual fraction models or equations that
	teoremultinke subole number of fraction has fraction
<b>5.NF.4.</b> a	I can multiply a whole number of fraction by a fraction.
	fraction
	L can use a model to multiply a fraction or a whole number by a fraction
5 NE / b	I can use a model to multiply a fraction of a whole number by a fraction.
5.111.4.0	I can use unit squares to find the area of a rectangle with fractional side lengths, and prove it
	with the use of the area formula
	I can determine the area of rectangles with fractional side lengths by multiplying the side
	lengths ( $A = 1 \times w$ ).
5.NE.5.a	I can compare the size of a product to the size of its factors (without performing multiplication)

	I can describe the size of a product in terms of how many times larger one factor is to another
	without multiplying.
	I can explain and show why multiplying by a fraction equal to 1 results in an equivalent fraction.
5.NF.5.b	I can explain the result of multiplying a given number by a fraction greater than and less than 1.
	I can explain why multiplying a number by a fraction greater than 1 will result in a product
	greater than the given number.
	I can explain why multiplying a number by a fraction less than 1 will result in a product smaller
	than the given number.
	I can multiply a given fraction by 1 (2/2, 4/4, 6/6) to find an equivalent fraction.
5.NF.6	I can solve word problems involving multiplication by fractions and mixed numbers.
	I can solve word problems involving multiplication of fractions and mixed numbers.
	I can draw/show multiplication of fractions through visual models.
	I can write equations to represent word problems involving multiplication of fractions.
	I can explain the relationship between multiplication, division, and fractions when dividing a
5.NF.7.a	unit fraction by a whole number.
	I can draw/show division of a unit fraction by a whole number as dividing the unit fraction into
	smaller parts.
	I can divide a unit fraction by a whole number.
	I can explain the effects of dividing a unit fraction by a whole number.
	I can create a story in which division of a unit fraction by a whole number is used.
	I can explain the relationship between multiplication, division, and fractions when dividing a
5.NF.7.b	whole number by a unit fraction.
	I can define the reciprocal of a unit fraction for the purpose of division.
	I can divide a whole number by a unit fraction.
	I can explain the effects of dividing a whole number by a unit fraction.
	I can create a story in which division of a whole number by a unit fraction is used.
5.NF.7.c	I can solve word problems involving division of fractions using a variety of strategies.
	I can divide a whole number by a unit fraction (vice versa) in the context of word problems.
	I can explain the effects of dividing a whole number by a unit fraction (vice versa) in the context
	of a word problem.
	I can solve a story/word problem in which division of a whole number by a unit fraction (vice
	versa) is used.
	I can explain or illustrate my solution strategy using visual fraction models or equations that
	represent the problem.
	I can convert among units within one measurement system (metric, standard, time, etc.) and
5.MD.1	use these conversions to solve word problems.
	I can convert measurements within a given measurement system.
	I can solve multi-step measurement conversion word problems.
	I can make a line plot to display a data set involving fractions of a measurement unit and use
5.MD.2	the information to solve problems.
	I can create and label a line plot to display a data set containing fractions.
	I can calculate the average of a data set containing fractions with unlike denominators.
	I can solve problems using data (fractions) represented in a line plot.
5.MD.3	I can explain the concept of volume using unit cubes.
5.MD.3.a	I can explain a unit cube as having side length of one.
	I can describe volume in terms of cubic units.

5.MD.3.b	I can explain/show the volume of a solid figure through repeated addition of unit cubes.	
	I can explain the difference between 2D and 3D figures and identify volume as an attribute of a	
	solid figure.	
5.MD.4	I can measure the volume of objects using a variety of methods and the appropriate units.	
	I can measure volume by counting unit cubes, cubic cm, cubic in., cubic ft., and improvised	
	units.	
	I can select which units of measurement are most appropriate for measuring volume.	
	I can explain the relationship between the concepts of volume, multiplication, and addition and	
5.MD.5	use that relationship to solve volume word problems.	
5.MD.5.a	I can calculate the volume of a right rectangular prism by packing it with unit cubes.	
	I can calculate the volume of a right rectangular prism by using the formulas V = I x w x h and V	
	= B x h (Area of the Base times the height).	
	I can define right rectangular prism.	
	I can relate finding the product of three numbers to finding the volume and relate both to the	
	associative property of multiplication.	
5.MD.5.b	I can describe/show how I x w = B (length times width equals area of the base (B).	
	I can calculate the volume of a right rectangular prism in the context of a word problem.	
5.MD.5.c	I can calculate the volumes of non-overlapping right rectangular prisms and add them together.	
	I can solve word problems requiring the calculations of multiple volumes and adding them	
	together.	
	I can decompose an irregular shape into non-overlapping rectangular prisms and find the	
	volume of the irregular shape by finding the sum of each of the decomposed prisms.	
	I can describe a coordinate system using correct vocabulary (axes, origin, points, plane,	
5.G.1	coordinates, quadrants).	
	I can define the coordinate plane as a set of perpendicular lines, called axes.	
	I can define the intersection of the perpendicular lines as the origin.	
	I can define the first number in an ordered pair as how far the point travels left or right, known	
	as the x-coordinate.	
	I can define the second number in an ordered pair as how far the point travels up or down,	
	known as the y-coordinate.	
5.G.2	I can represent the context of a problem using a coordinate plane.	
	I can graph points in the first quadrant based on word problems.	
5.G.3	I can reason using the attributes and categories of two-dimensional figures.	
	I can classify two-dimensional figures according to their attributes.	
	I can define subcategories using two-dimensional attributes.	
	I can explain two-dimensional attributes can belong to several two-dimensional figures.	
5.G.4	I can classify two-dimensional figures based on properties.	
	I can classify two-dimensional figures based on their properties.	
	I can classify two-dimensional figures in a hierarchy based on their properties.	
Key:		
Yellow Hig	niight = Critical Area	
Blue Font Color = Long Term Learning Goal		
Black Font	Color = Short Term (possibly daily) learning target WITHOUT condition and criteria.	