Essential Standards Chart Math: What is it we expect students to learn?								
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		Subject:	Math		Team	Jacki Hess		
				Members:				
Standard Description		Example Rigor	Prerequi	site Skills	Common Assessment	When Taught?	Extension Standards	
What is the essential standard to be learned? Describe in student-friendly vocabulary.		What does proficient student work look like? Provide an example and/or description.	skills, and/o is/are neo student to	knowledge, r vocabulary eded for a master this dard?		When will this standard be taught?	What will we do when students have learned the essential standard(s)?	
4.0A.1 Interpret a multiplication equation as a comparison. Represent verbal statements of multiplicative comparisons as multiplication equations. 4.0A.2 Multiply or divide to solve word problems involving multiplicative comparison, distinguishing multiplicative comparison from additive								
comparison. Use drawings and equations with a symbol for the unknown number to represent the problem.								

4.0A.3 Solve multistep word problems posed with whole number answers using the 4 operations, including problems in which remainders must be interpreted				
a. Represent these problems using equations or expressions with a letter standing for the unknown quantity. b. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.		Place Value and basic addition and subtraction	October	
4. OA.5				
Generate a number or shape				
pattern that follows a given				
rule. Identify and informally explain apparent features of				
the pattern that were not				
explicit in the rule itself.				
4. NBT.1				
Recognize that in a multi-digit				
whole number, a digit in one				
place represents ten times				
what it represents in the place				
to its right.				

4.NBT.2			
2a. Read and write multi-digit			
whole numbers using base-ten			
numerals, number names, and			
expanded form. 2b. Compare			
two multi-digit numbers based			
on meanings of the digits in			
each place, using >, =, and <			
symbols to record the results			
of comparisons.			
4.NBT.3			
Use place value understanding			
to round multi-digit whole			
numbers to any place.			
4.NBT.4			
Fluently add and subtract			
multi-digit whole numbers			
using a standard algorithm.			
4.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 based on place			
value and the properties of			
operations. Illustrate and			
explain the calculation by using			
equations, rectangular arrays,			
and/or area models.			

4.NBT.6			
Find whole-number quotients			
and remainders with up to			
four-digit dividends and			
one-digit divisors, using			
strategies based on place			
value, the properties of			
operations, and/or the			
relationship between			
multiplication and division.			
Illustrate and explain the			
calculation by using equations,			
rectangular arrays, and/or			
area models.			
4. MD. 4			
Make a line plot to display a			
data set of measurements in			
fractions of a unit $(\frac{1}{2}, \frac{1}{4}, \frac{1}{8})$ .			
Solve problems involving			
addition and subtraction of			
fractions by using information			
presented in line plots			

4. MD. 5.			
Recognize angles as geometric			
shapes that are formed			
wherever two rays share a			
common endpoint, and			
understand concepts of angle			
measurement.			
a. Recognize an angle is			
measured with reference to a			
circle with its center at the			
common endpoint of the rays,			
by considering the fraction of			
the circular arc between the			
points where the two rays			
intersect the circle. An angle			
that turns through 1/360 of a			
circle is called a "one-degree			
angle," and can be used to			
measure angles. b. Recognize			
an angle that turns through n			
one-degree angles is said to			
have an angle measure of n			
degrees.			
4.MD.6			
Measure angles in			
whole-number degrees using a			
protractor. Sketch angles of			
specified measure.			