

What is it we expect students to learn?

Identifying Essential Standards

5th grade mathematics

Team: T. Kisker, B. Boettcher, B. Ricks, B. Byland

February 2011

1. STANDARD/DESCRIPTION	2. EVIDENCE OF PROFICIENCY	3. PRIOR SKILLS NEEDED	4. COMMON SUMMATIVE	5. WHEN TAUGHT?	6. ENRICHMENT STANDARDS
Number and Operations					
Students can read, write, and compare whole numbers to a million, unit fractions, and decimals to hundredths (including location on the number line).		*Students understand patterns in our base ten place value system. *Students can order fractions by comparing them to 0, $\frac{1}{2}$, and 1. *Students can locate whole number on a number line.			
Students can find common factors and identify prime and composite numbers.		*Students can find factors of a number. * Students know if a number is odd or even. *Students know divisibility rules for 2, 3, 5, and 10.			
Students can perform multiplication and division with multi-digit whole numbers and addition and subtraction with decimals to hundredths.		*Students know basic math facts. * Students can add and subtract whole numbers.			
Students can use equivalent fractions as a strategy to add and subtract fractions with unlike denominators.		*Students can write fraction names for 1. *Students can add and subtract fractions and mixed numbers with like denominators. *Students can find equivalent forms of fractions.			

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<p>Students can find a fraction of a group.</p>		<p>*Students can find a fraction of a whole number. *Students can draw a diagram to solve a fraction of a group word problem.</p>			
<p>Algebraic Relationships</p>					
<p>Students can describe the relationship between sets of data in a table and write a rule to describe the relationship.</p>		<p>*Students can describe a rule in a sequence and count up and down to extend a pattern. *Students can write an expression or number sentence using a letter.</p>			
<p>Geometric and Spatial Relationships</p>					
<p>Students can analyze and classify 2- and 3- dimensional shapes by describing their attributes.</p>		<p>*Students can name and identify properties of lines and angles. Students know the names for common polygons.</p>			
<p>Measurement</p>					
<p>Students can convert mixed measures into smaller units.</p>		<p>*Students can perform two step problems.</p>			
<p>Students can Identify the equivalent weights and equivalent capacities within a system of measure.</p>		<p>*Students can identify equivalent values for linear measurement.</p>			

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Students can multiply to find the number of blocks in a three dimensional figure. (intro to finding volume)		*Students can multiply 3 digits. *Students can apply the commutative property to multiplication.			
Data and Probability					
Students can construct a frequency table and use it to complete various graphs to display the data.		*Students know how to use tally marks. * Students can construct and interpret bar graphs, pictographs, and line graphs.			
Students can use a fraction or percent to describe the chance that an event will occur or not occur and describe an event as certain, likely, unlikely, or impossible.		*Students can write a fraction to represent part of a whole or part of a group. *Students can use common percents to name a part of a whole.			