

## Standards Table: 6<sup>th</sup> Grade Mathematics

<b>SPIs: Focus Content</b>	
<b>Mathematical Processes</b>	<b>SPI 0606.1.2 Judge the reasonableness of the results of rational number estimates and/or computations.</b>
	<b>SPI 0606.1.3 Use concrete, pictorial, and symbolic representation for integers.</b>
	<b>SPI 0606.1.4 Select the representation that models one of the arithmetic properties (commutative, associative, or distributive).</b>
	<b>SPI 0606.1.5 Model algebraic expressions using algebra tiles.</b>
<b>Number and Operations</b>	<b>SPI 0606.2.1 Solve problems involving the multiplication and division of fractions.</b>
	<b>SPI 0606.2.2 Solve problems involving the addition, subtraction, multiplication, and division of mixed numbers.</b>
	<b>SPI 0606.2.5 Transform numbers from one form to another (fractions, decimals, percents, and mixed numbers).</b>
	<b>SPI 0606.2.6 Solve problems involving ratios, rates and percents.</b>
	<b>SPI 0606.2.7 Locate positive rational numbers on the number line.</b>
	<b>SPI 0606.2.8 Locate integers on the number line.</b>
<b>Algebra</b>	<b>SPI 0606.3.3 Write equations that correspond to given situations or represent a given mathematical relationship.</b>
	<b>SPI 0606.3.4 Rewrite expressions to represent quantities in different ways.</b>
	<b>SPI 0606.3.5 Translate between verbal expressions/sentences and algebraic expressions/equations.</b>
	<b>SPI 0606.3.9 Graph ordered pairs of integers in all four quadrants of the Cartesian coordinate system.</b>
<b>SPIs: Other Content</b>	
<b>Mathematical Processes</b>	SPI 0606.1.1 Make conjectures and predictions based on data.
<b>Number and Operations</b>	SPI 0606.2.3 Solve problems involving the addition, subtraction, multiplication, and division of decimals.
	SPI 0606.2.4 Solve multi-step arithmetic problems using fractions, mixed numbers, and decimals.
<b>Geometry and Measurement</b>	SPI 0606.4.4 Calculate with circumferences and areas of circles.
<b>Data</b>	SPI 0606.5.2 Identify features of graphs that may be misleading.

Standards Table: 6<sup>th</sup> Grade Mathematics

<b>Analysis, Statistics and Probability</b>	SPI 0606.5.3 Determine whether or not a sample is biased.
<b>Dropped SPIs: These SPIs will not appear on the 2013-14 TCAP Achievement Exams</b>	
<b>Algebra</b>	SPI 0606.3.1 Represent on a number line the solution of a linear inequality.
	SPI 0606.3.2 Use order of operations and parentheses to simplify expressions and solve problems.
	SPI 0606.3.6 Solve two-step linear equations using number sense, properties, and inverse operations.
	SPI 0606.3.7 Use algebraic expressions and properties to analyze numeric and geometric patterns.
	SPI 0606.3.8 Select the qualitative graph that models a contextual situation (e.g., water filling then draining from a bathtub).
<b>Geometry and Measurement</b>	SPI 0606.4.1 Identify, define or describe geometric shapes given a visual representation or a written description of its properties.
	SPI 0606.4.2 Find a missing angle measure in problems involving interior/exterior angles and/or their sums.
	SPI 0606.4.3 Solve problems using the Triangle Inequality Theorem.
	SPI 0606.4.5 Determine the surface area and volume of prisms, pyramids and cylinders.
	SPI 0606.4.6 Given the volume of a cone/pyramid, find the volume of the related cylinder/prism or vice versa.
<b>Data Analysis, Statistics and Probability</b>	SPI 0606.5.1 Determine the theoretical probability of simple and compound events in familiar contexts.