

Hickman County Curriculum Map

Sixth Grade

Mathematics

First Six Weeks

Grade Level Expectations	Checks for Understanding	Student Performance Indicator(s)
<p>6.1.2 Apply and adapt a variety of appropriate strategies to problem solving, including estimation, and reasonableness of the solution.</p> <p>6.1.4 Move flexibly between concrete and abstract representation of mathematical ideas in order to solve problems, model mathematical ideas, and communicate solution strategies.</p> <p>6.2.1 Understand and explain the procedures for multiplication and division of fractions, mixed numbers, and <u>decimals</u>.</p>	<p>6.1.1 Recognize different conventions used in calculator and computer spreadsheets (e.g. , * for multiplication, ^ for exponent), but use mathematical notation in written work. [order of operations and throughout the year]</p> <p>6.1.2 Recognize when an estimate is more appropriate than an exact answer in a variety of problem situations. [page 130]</p> <p>6.1.3 Recognize errors generated by rounding. [page 134]]</p> <p>6.1.5 Illustrate properties of operations by showing that two expressions are equivalent in a given context (e.g. using an area model for distributive property, and grouping/set models for commutative and associative properties).</p> <p>6.1.7 Formulate questions, design studies, and collect real world data. [ongoing throughout the year]</p> <p>6.2.1 Efficiently compare and order <u>fractions</u>, <u>decimals</u> and percents; determine their approximate locations on a number line.</p>	<p>6.1.2 Judge the reasonableness of the results of rational number estimates and/or computations. [page 124-130]</p> <p>6.1.4 Select the representation that models one of the arithmetic properties (commutative, associative, or distributive). [page 137 & page 159]</p> <p>6.2.3 Solve problems involving the addition, subtraction, multiplication, and division of decimals. [Chapter 3 & 4]</p> <p>6.2.4 Solve multi –step arithmetic problems using fractions, mixed numbers, and <u>decimals</u>. [Chapter 3 & 4]</p> <p>6.3.2 Use order of operations and parentheses to simplify expressions and solve problems. [order of operations pages 20-24]</p> <p>6.3.3 Write equations that correspond to given situations or represent a given mathematical relationships. (properties)</p> <p>6.3.7 Use algebraic expressions and properties to analyze numeric and geometric patterns. [pages 604-608]</p>

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<p>6.3.2 Interpret and represent algebraic relationships with <u>variables</u> in expressions, simple equations and inequalities.</p> <p>6.3.3 Extend order of operations to include grouping symbols and exponents.</p>	<p>[page 118-119] & [pages 228-229, 239-240, & 244-246]</p> <p>6.3.3 Recognize the use of juxtaposition (in front of, such as $3x$, ab) to stand for multiplication, and the convention in these cases of writing numbers before letters. {page 159 distributive property}</p> <p>6.3.5 Use commutative, associative and distributive properties to show that two expressions are equivalent.</p> <p>6.3.6 Use equations to describe simple relationships shown in a table or graph.</p> <p>6.3.9 Write a contextual story modeled by a given graph.</p>	<p>input/output tables]</p>
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