

Fourth Grade Compacted Mathematics Newsletter



Marking Period 1, Part 1

MT	Learning Goals by Measurement Topic (MT) <u>Students will be able to . . .</u>
Number and Operations in Base Ten	<ul style="list-style-type: none"> demonstrate an understanding of place value of whole numbers up to one million. read and write whole numbers from zero to one million using numbers, words, and expanded form. compare whole numbers using the symbols, $<$, $>$, or $=$. explain the value of a digit based on its position in a number using the base-ten system. round whole numbers to any place (tens, hundreds, thousands, etc.).
Operations and Algebraic Thinking	<ul style="list-style-type: none"> solve multiple step word problems that include addition/subtraction and determine if the answers are reasonable. recognize that situations can be multiplication and addition comparisons. represent and solve addition comparison word problems. represent and solve multiplication comparison word problems. use variables to represent unknown numbers.

Thinking and Academic Success Skills (TASS)		
	<u>It is . . .</u>	<u>In mathematics, students will . . .</u>
Synthesis	putting parts together to build understanding of a whole concept or to form a new or unique whole.	<ul style="list-style-type: none"> use knowledge of the mathematical operations ($+$, $-$, \times, \div) to solve word problems. connect previous knowledge of basic facts to solve addition and subtraction problems using numbers up to one million. demonstrate an understanding of the various parts of the base-ten system.
Collaboration	working effectively and respectfully to reach a group goal.	<ul style="list-style-type: none"> participate in small group discussions of multiplication and addition comparisons. determine reasonable answers in pairs and small groups. discover when to compromise and when to stick to ideas when problem solving.

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Learning Experiences by Measurement Topic (MT)		
MT	 <u>In school, your child will . . .</u>	 <u>At home, your child can . . .</u>
Number and Operations in Base Ten	<ul style="list-style-type: none"> add and subtract with whole numbers up to one million using the standard algorithm. <p><u>Example:</u></p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> $\begin{array}{r} + 759,063 = 800,204 \\ 759,063 \\ + 41,141 \\ \hline 800,204 \end{array}$ </div> <ul style="list-style-type: none"> explain the value of a digit based on its position in a number. round whole numbers by using a number line and other strategies. read and write numbers using standard, word, and expanded form. 	<ul style="list-style-type: none"> work collaboratively to make a place value game using cards, dice, spinners, coins and other household objects. find examples of numbers such as prices, populations and distances in books. Use this information to compare, order, and round to any place (ten, hundred, thousand, etc.). practice multiplication and division facts from 0 – 10.
Operations and Algebraic Thinking	<ul style="list-style-type: none"> solve two-step word problems. decide whether to multiply or add to solve a word problem. solve multiplication comparisons. <p><u>Example:</u> Sam has 4 times as many marbles as Miguel. Miguel has 8 marbles. How many marbles does Sam have?</p> <ul style="list-style-type: none"> solve equations using a variable to represent an unknown number. <p><u>Example:</u> $8 \times n = 32$</p>	<ul style="list-style-type: none"> create and solve word problems involving familiar objects from home. Explain why the answer is correct and reasonable. engage in discussions about how and when to use multiplication to compare numbers. <p><u>Example:</u> Mei has twice as many pennies as quarters in her piggy bank.</p>

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