## Fourth Grade Compacted Mathematics Newsletter

Marking Period 1, Part 1

MT	Learning Goals by Measurement Topic (MT) Students will be able to			
Ľ	• dem	onstrate an understanding of place value of whole numbers up to one million.		
Number and erations in Base Te	<ul> <li>read</li> </ul>	and write whole numbers from zero to one million using numbers, words,		
	and	expanded form.		
	• com	pare whole numbers using the symbols, <, >, or =.		
	• expla	ain the value of a digit based on its position in a number using the base-ten		
	syste	em.		
dO	• rour	d whole numbers to any place (tens, hundreds, thousands, etc.).		
perations and ebraic Thinking	<ul> <li>solve</li> </ul>	e multiple step word problems that include addition/subtraction and		
	dete	rmine if the answers are reasonable.		
	• reco	gnize that situations can be multiplication and addition comparisons.		
	• repr	esent and solve addition comparison word problems.		
	• repr	esent and solve multiplication comparison word problems.		
0 Alg	• use v	variables to represent unknown numbers.		

Thinking and Academic Success Skills (TASS)								
	<u>lt is</u>	In mathematics, students will						
Synthesis	putting parts together to build understanding of a whole concept or to form a new or unique whole.	<ul> <li>use knowledge of the mathematical operations (+, -, x, ÷) to solve word problems.</li> <li>connect previous knowledge of basic facts to solve addition and subtraction problems using numbers up to one million.</li> <li>demonstrate an understanding of the various parts of the baseten system.</li> </ul>						
Collaboration	working effectively and respectfully to reach a group goal.	<ul> <li>participate in small group discussions of multiplication and addition comparisons.</li> <li>determine reasonable answers in pairs and small groups.</li> <li>discover when to compromise and when to stick to ideas when problem solving.</li> </ul>						

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Learning Experiences by Measurement Topic (MT)								
MT	In school, yo	ur child will		At home, your child can				
Number and Operations in Base Ten	<ul> <li>add and subtract with who million using the standard <u>Example:</u></li> <li>explain the value of a digit number.</li> <li>round whole numbers by other strategies.</li> <li>read and write numbers u expanded form.</li> </ul>	ble numbers up to one algorithm. +759,063 = 800,204 -7400,204 -759,063 41, 141 based on its position in a using a number line and sing standard, word, and	•	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> <li>solve two-step word problems.</li> <li>decide whether to multiply or add to solve a word problem.</li> <li>solve multiplication comparisons. <ul> <li><u>Example:</u> Sam has 4 times as many marbles as Miguel.</li> <li>Miguel has 8 marbles. How many marbles does Sam have?</li> </ul> </li> <li>solve equations using a variable to represent an unknown number. <ul> <li><u>Example:</u> 8 x n = 32</li> </ul> </li> </ul>			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. <u>Example:</u> Mei has twice as many pennies as quarters in her piggy bank.				

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