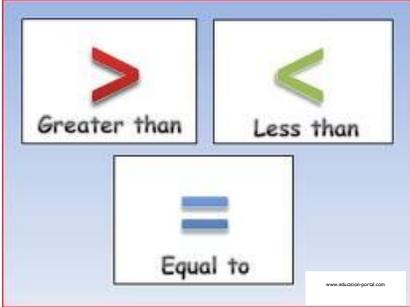


# Second Grade Mathematics Newsletter

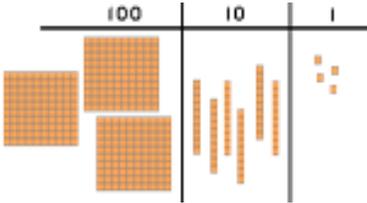
Marking Period 1, Part 1

MT	<b>Learning Goals by Measurement Topic (MT)</b> <u>Students will be able to...</u>	
<b>Number and Operations in Base Ten</b>	<ul style="list-style-type: none"> <li>• read and write 2-<b>digit</b> and 3-<b>digit</b> numbers using a variety of <b>place value representations</b> (for example, <b>standard form</b>, <b>word form</b>, and <b>expanded form</b>).</li> <li>• explain that place value shows each <b>digit</b> within a number has a given value (for example, the value of the 5 in 352 is 50).</li> <li>• count to 1,000 using a variety of tools (for example, hundreds chart or number line).</li> <li>• skip-count by 10 or 100 forwards and backwards from any number.</li> <li>• use place value to compare 3-<b>digit</b> numbers using words and symbols (&gt;, &lt;, =).</li> </ul>	
<b>Operations and Algebraic Thinking</b>	<ul style="list-style-type: none"> <li>• use strategies to add all 1-<b>digit</b> numbers accurately, efficiently, and flexibly.</li> <li>• use strategies to subtract all 1-<b>digit</b> numbers accurately, efficiently, and flexibly.</li> </ul>	

<b>Thinking and Academic Success Skills (TASS)</b>		
	<u>It is...</u>	<u>In mathematics, students will...</u>
<b>Fluency</b>	generating multiple responses to a problem or an idea.	<ul style="list-style-type: none"> <li>• ask questions about the relationships between <b>digits</b> or <b>expanded form</b> to understand skip-counting by 10s and 100s.</li> <li>• use <b>expanded form</b> and <b>base ten models</b> to compare 3-<b>digit</b> numbers.</li> <li>• apply place value and counting strategies to mentally add and subtract 10 and 100.</li> <li>• implement different strategies to add and subtract 1-<b>digit</b> numbers within 20.</li> </ul> 
<b>Collaboration</b>	working effectively and respectfully to reach a group goal.	<ul style="list-style-type: none"> <li>• share roles and responsibilities respectfully to understand how place value is used to count within 1,000.</li> <li>• participate actively as a leader and a member in group activities to show numbers in different ways.</li> </ul> 

# Second Grade Mathematics Newsletter

Marking Period 1, Part 1

Learning Experiences by Measurement Topic (MT)																																
MT	 <u>In school, your child will . . .</u>	 <u>At home, your child can . . .</u>																														
Operations and Algebraic Thinking	<ul style="list-style-type: none"> <li>learn various strategies to add and subtract numbers 0-20.</li> </ul> <p><u>Some strategies include:</u></p> <p><i>Doubles</i> <math>2 + 2 = 4</math>      <i>Near Doubles</i> <math>2 + 3 = 2 + 2 + 1</math></p> <p><i>Ten Frames</i> <math>5 + 4 = 9</math>      <i>Double Ten Frames</i> <math>6 + 8 = 14</math></p> <div style="display: flex; justify-content: space-around;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> </table> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> </table> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> </table> </div> <p><i>Counting On</i> <math>4 + 8</math> (Start with the biggest number 8 and add on 4)</p> <p><i>Making Ten</i> <math>3 + 9</math> (Remove 1 from 3 to leave 2. Add that 1 to 9 to make 10. Then, add the 2 to the ten to give 12.)</p> <p><i>Fact Families</i> <math>2 + 3 = 5</math>    <math>3 + 2 = 5</math>    <math>5 - 2 = 3</math>    <math>5 - 3 = 2</math></p>	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	<ul style="list-style-type: none"> <li>show different strategies to add and subtract numbers from 0-20.</li> <li>use playing cards (1-10) to collaborate with friends or family members to practice adding or subtracting numbers.</li> </ul> <div style="text-align: center;">  +  = 5         </div> <p><u>Website to support learning:</u> -<a href="http://www.montgomeryschoolsmd.org/departments/hiat/websites/math.shtm">http://www.montgomeryschoolsmd.org/departments/hiat/websites/math.shtm</a></p>
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Number and Operations in Base Ten	<ul style="list-style-type: none"> <li>use a hundreds chart, base ten blocks, Digi-blocks™, and a number line to explain place value concepts.</li> <li>mentally add and subtract 10 and 100 from any number.</li> </ul> <div style="text-align: center;"> <p>Base Ten Blocks</p>  </div> <p><i>10 more than 356 is 366</i>      <i>10 less than 356 is 346</i></p> <p><i>100 more than 356 is 456</i>      <i>100 less than 356 is 256</i></p>	<ul style="list-style-type: none"> <li>jump rope while counting forwards and backwards by 1s, 10s, or 100s to show fluency.</li> <li>practice counting by tens from any 3-<b>digit</b> number.</li> <li>look at nutrition labels and explain how to compare the different categories.</li> <li>use dice to generate 3-<b>digit</b> numbers and discuss place value strategies to make the largest or the smallest number.</li> </ul> <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: fit-content; margin: 10px auto;">       173, 183, 193, 203 ...     </div> <div style="text-align: right;">  </div> <p><u>Website to support learning:</u> -<a href="http://illuminations.nctm.org/ActivityDetail.aspx?ID=75">http://illuminations.nctm.org/ActivityDetail.aspx?ID=75</a></p>																														

Glossary	<p><b>expanded form:</b> a way to represent a number by showing the value of each digit (<math>300 + 60 + 4</math>)</p> <p><b>digit:</b> a mathematical way to represent a numeral (0-9)      1-digit number: 4      2-digit number: 64      3-digit number: 364</p> <p><b>standard form:</b> a way to represent a number using digits (364)</p> <p><b>written form:</b> a way to represent a number using words (three hundred sixty-four)</p>
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