

<b>Domain: Numbers and Operations in Base Ten</b>		
<b>Cluster 1</b>		
<b>Kindergarten</b>	<b>Grade 1</b>	<b>Grade 2</b>
<p><b>MAFS.K.NBT.1.1</b> Compose and decompose numbers from 11 to 19 into ten ones and some further ones, e.g., by using objects or drawings, and record each composition or decomposition by a drawing or equation; understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven eight, or nine ones.</p>	<p><b>MAFS.1.NBT.1.1</b> Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.</p>	<p><b>MAFS.2.NBT.1.1</b> Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones. Understand the following special cases.</p> <ul style="list-style-type: none"> <li>a. 100 can be thought of as a bundle of ten tens – call a hundred</li> <li>b. The numbers 100, 200, 300...900 refer to one, two, three...nine hundreds and 0 tens and 0 ones.</li> </ul>
		<p><b>MAFS.2.NBT.1.2</b> Count within 1000; skip-count by 5s, 10s, and 100s.</p>
		<p><b>MAFS.2.NBT.1.3</b> Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.</p>
		<p><b>MAFS.2.NBT.1.4</b> Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using <math>&gt;</math>, <math>=</math>, <math>&lt;</math> symbols to record the results of comparisons.</p>

<b>Domain: Operations and Algebraic Thinking</b>		
<b>Cluster 1</b>		
<b>Grade 3</b>	<b>Grade 4</b>	<b>Grade 5</b>
<p><b>MAFS.3.NBT.1.1</b> Use place value understanding to round whole numbers to the nearest 10 or 100.</p>	<p><b>MAFS.4.NBT.1.1</b> Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.</p>	<p><b>MAFS.5.NBT.1.1</b> Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.</p>
<p><b>MAFS.3.NBT.1.2</b> Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.</p>	<p><b>MAFS.4.NBT.1.2</b> Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using <math>&gt;</math>, <math>=</math>, <math>&lt;</math> symbols to record the results of comparisons.</p>	<p><b>MAFS.5.NBT.1.2</b> Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of ten.</p>
<p><b>MAFS.3.NBT.1.3</b> Multiply one-digit whole numbers by multiples of 10 in the range 10-90 (e.g., <math>9 \times 80</math>, <math>5 \times 60</math>) using strategies based on place value and properties of operations.</p>	<p><b>MAFS.4.NBT.1.3</b> Use place value understanding to round multi-digit whole numbers to any place.</p>	<p><b>MAFS.5.NBT.1.3</b> Read, write, and compare decimals to thousandths.</p> <ol style="list-style-type: none"> <li>a. Read and write decimals to thousandths using base-ten numerals, number names, and expanded form</li> <li>b. Compare two decimals to thousandths based on meanings of the digits in each place, using <math>&gt;</math>, <math>=</math>, <math>&lt;</math> symbols to record the results of comparisons.</li> </ol>
		<p><b>MAFS.5.NBT.1.4</b> Use place value understanding to round decimals to any place.</p>

Domain: Numbers and Operations in Base Ten		
Cluster 2		
Kindergarten	Grade 1	Grade 2
	<p><b>MAFS.1.NBT.2.2</b> Understand that the two digits of a two-digit number represent amounts of tens and ones.</p> <ol style="list-style-type: none"> <li>10 can be thought of as a bundle of ten ones – called a “ten”</li> <li>Then numbers from 11 to 19 are composed of a ten and one, two, three...nine ones</li> <li>The numbers 10, 20, 30...90 refer to one, two, three...nine tens and 0 ones.</li> <li>Decompose two-digit numbers in multiple ways (64 can be decomposed into 6 tens and 4 ones or 5 tens and 14 ones).</li> </ol>	
	<p><b>MAFS.1.NBT.2.3</b> Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols <math>&gt;</math>, <math>=</math>, <math>&lt;</math>.</p>	
		<p><b>MAFS.2.NBT.2.5</b> Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.</p>
		<p><b>MAFS.2.NBT.2.6</b> Add up to four two-digit numbers using strategies based on place value and properties of operations.</p>
		<p><b>MAFS.2.NBT.2.7</b> Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understanding that in adding or subtracting three digit numbers, one adds or subtracts hundreds and hundreds, tens and tens and ones and ones.</p>
		<p><b>MAFS.2.NBT.2.8</b> Mentally add 10 or 100 to a given number 100-900, and mentally subtract 10 or 100 from a given number 100-900.</p>
		<p><b>MAFS.NBT.2.9</b> Explain why addition and subtraction strategies work, using place value and the properties of operations.</p>

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<b>Cluster 2</b>		
<b>Grade 3</b>	<b>Grade 4</b>	<b>Grade 5</b>
	<p><b>MAFS.4.NBT.2.4</b> Fluently add and subtract multi-digit whole numbers using the standard algorithm.</p>	
	<p><b>MAFS.4.NBT.2.5</b> Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</p>	<p><b>MAFS.5.NBT.2.5</b> Fluently multiply multi-digit whole numbers using the standard algorithm.</p>
	<p><b>MAFS.4.NBT.2.6</b> Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</p>	<p><b>MAFS.5.NBT.2.6</b> Find whole-number quotients of whole numbers with up to four-digit dividends and two digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</p>
		<p><b>MAFS.5.NBT.2.7</b> Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.</p>

**Domain: Numbers and Operations in Base Ten**

**Cluster 3**

<b>Kindergarten</b>	<b>Grade 1</b>	<b>Grade 2</b>
	<p><b>MAFS.1.NBT.3.4</b> Add within 100 including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10 ,using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reason used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten.</p>	
	<p><b>MAFS.1.NBT.3.5</b> Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.</p>	
	<p><b>MAFS.1.NBT.3.6</b> Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90 using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.</p>	

<b>Domain: Numbers and Operations in Base Ten</b>		
<b>Cluster 3</b>		
<b>Grade 3</b>	<b>Grade 4</b>	<b>Grade 5</b>

Numbers and Operations in Base Ten does not have cluster 3 standards in grades 3, 4 or 5.