



# Math Teachers Press, Inc.

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## New York State Next Generation Mathematics Learning Standards Correlated to Moving with Math Extensions Grade 2

		Student Book	Skill Builders
	<b>Operations and Algebraic Thinking</b>		
<b>2.OA</b>	Represent and solve problems involving addition and subtraction.		
<b>1a</b>	Use addition and subtraction within 100 to solve one-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions.	9, 10, 12, 13, 20-22, 28-32, 34, 35, 37, 39	26-1, 28-1, 28-3, 28-4, 30-1, 32-1, 34-2, 36-1, 39-2, 39-3, 40-1, 41-1, 42-1, 42-2, 48-1, 49-1, 49-2
<b>1b</b>	Use addition and subtraction within 100 to develop an understanding of solving two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions.	23	39-1
<b>2.OA</b>	<b>Add and subtract within 20.</b>		
<b>2a</b>	Fluently add and subtract within 20 using mental strategies. Strategies could include: <ul style="list-style-type: none"> <li>• counting on;</li> <li>• making ten; e.g., <math>8 + 6 = 8 + 2 + 4 = 10 + 4 = 14</math></li> <li>• decomposing a number leading to a ten; e.g., <math>13 - 4 = 13 - 3 - 1 = 10 - 1 = 9</math></li> <li>• using the relationship between addition and subtraction; and e.g., knowing that <math>8 + 4 = 12</math>, one knows <math>12 - 8 = 4</math></li> <li>• creating equivalent but easier or known sums</li> </ul>	14, 16, 17	26-2, 26-3, 27-1, 27-2, 29-1 to 29-3
<b>2b</b>	Know from memory all sums within 20 of two one-digit numbers.		
<b>2.OA</b>	Work with equal groups of objects to gain foundations for multiplication.		
<b>3a</b>	Determine whether a group of objects (up to 20) has an odd or even number of members.	7, 8	9-2 to 9-5, 26-4
<b>3b</b>	Write an equation to express an even number as a sum of two equal addends.	8	26-4
<b>4</b>	Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns. Write an equation to express the total as a sum of equal addends.	66	50-2
	<b>Number and Operations in Base Ten</b>		
<b>2.NBT</b>	<b>Understand place value.</b>		
<b>1</b>	Understand that the digits of a three-digit number represent amounts of hundreds, tens, and ones.		

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a)	Understand 100 can be thought of as a bundle of ten tens, called a “hundred.”	25, 41	45-4, 45-7
b)	Understand the numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones).	41	45-4, 45-7
2	Count within 1000; skip-count by 5s, 10s, and 100s.	24, 25, 41	10-1, 45-4
3	Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.	5, 25, 27, 41, 42	45-1, 45-5, 45-6
4	Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using $>$ , $=$ , and $<$ symbols to record the results of comparisons.	43	45-3, 45-8
<b>2.NBT</b>	<b>Use place value understanding and properties of operations to add and subtract.</b>		
5	Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.	28-39	30-1, 30-2, 31-1, 32-1, 32-3, 34-1, 34-2, 35-1, 36-1, 47-1, 47-2, 48-1 to 48-5, 49-1, 49-2
6	Add up to four two-digit numbers using strategies based on place value and properties of operations.	33	49-1, 49-2
7a	Add and subtract within 1000, using <ul style="list-style-type: none"> <li>• concrete models or drawings, and</li> <li>• strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.</li> </ul> <p>Relate the strategy to a written representation.</p> <p>Note: A written representation is any way of showing a strategy using words, pictures, or numbers.</p>	44, 45	32-2, 32-4, 36-2 to 36-6
7b	Understand that in adding or subtracting up to three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones, and sometimes it is necessary to compose or decompose tens or hundreds.	44, 45	32-2, 32-4, 36-2 to 36-6
8	Mentally add 10 or 100 to a given number 100-900, and mentally subtract 10 or 100 from a given number 100-900.		36-4
9	Explain why addition and subtraction strategies work, using place value and the properties of operations.	30-39, 44, 45	30-1, 30-2, 31-1, 31-2, 32-1, 32-2, 32-4, 34-1, 34-2, 35-1, 36-1 to 36-6, 47-1, 47-2, 48-4, 48-5, 49-1, 49-2
	<b>Measurement and Data</b>		
<b>2.MD</b>	<b>Measure and estimate lengths in standard units.</b>		
1	Measure the length of an object to the nearest whole by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes	54-57, 59	19-1, 19-2, 19-8

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<b>2</b>	Measure the length of an object twice, using different “length units” for the two measurements; describe how the two measurements relate to the size of the unit chosen.	56	19-8
<b>3</b>	Estimate lengths using units of inches, feet, centimeters, and meters.	55, 56	19-1, 19-2, 19-4, 19-7
<b>4</b>	Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard “length unit.”	54, 57	19-3
<b>2.MD</b>	<b>Relate addition and subtraction to length.</b>		
<b>5</b>	Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units.	58	19-3, 19-10
<b>6</b>	Represent whole numbers as lengths from 0 on a number line with equally spaced points corresponding to the numbers 0, 1, 2, ..., and represent whole-number sums and differences within 100 on a number line.	17, 28, 34	29-2, 34-2
<b>2.MD</b>	<b>Work with time and money.</b>		
<b>7</b>	Tell and write time from analog and digital clocks in five minute increments, using a.m. and p.m. Develop an understanding of common terms, such as, but not limited to, <i>quarter past</i> , <i>half past</i> , and <i>quarter to</i> .	51	18-1, 18-2, 18-4, 18-5
<b>8a</b>	Count a mixed collection of coins whose sum is less than or equal to one dollar.	52	22-1, 23-1
<b>8b</b>	Solve real world and mathematical problems within one dollar involving quarters, dimes, nickels, and pennies, using the ¢ (cent) symbol appropriately.	53	
<b>2.MD</b>	<b>Represent and interpret data.</b>		
<b>9</b>	Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Present the measurement data in a line plot, where the horizontal scale is marked off in whole-number units.	59	38-2
<b>10</b>	Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a picture graph or a bar graph.	64	38-1, 38-3
	<b>Geometry</b>		
<b>2.G.</b>	<b>Reason with shapes and their attributes.</b>		
<b>1</b>	Classify two-dimensional figures as polygons or non-polygons.		
<b>2</b>	Partition a rectangle into rows and columns of same-size squares and count to find the total number of them.	49	20-2
<b>3</b>	Partition circles and rectangles into two, three, or four equal shares. Describe the shares using the words <i>halves</i> , <i>thirds</i> , <i>half of</i> , <i>a third of</i> , etc. Describe the whole as <i>two halves</i> , <i>three thirds</i> , <i>four fourths</i> . Recognize that equal shares of identical wholes need not have the same shape.	61, 62	25-1