

## Level K - Mathematics

Maryland Standards for Mathematical Practice		Simple Solutions Standards	
<b>Counting and Cardinality (CC)</b>			
<b>K.CC.A.1</b>	Count to 100 by ones and by tens.	<b>K.CC.1</b>	Count to 100 by ones and by tens.
<b>K.CC.A.2</b>	Count forward beginning from a given number within the known sequence (instead of having to begin at 1).	<b>K.CC.2</b>	Count forward beginning from a given number within the known sequence (instead of having to begin at 1).
<b>K.CC.A.3</b>	Write numerals from 0 to 20. Represent a number of objects with a written numeral 0-20 (with 0 representing a count of no objects).	<b>K.CC.3</b>	Write numbers from 0 to 20. Represent a number of objects with a written numeral 0-20 (with 0 representing a count of no objects).
<b>K.CC.B.4</b>	Understand the relationship between numbers and quantities; connect counting to cardinality. <i>a. When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object. (one to one correspondence)</i> <i>b. Understand that the last number name said tells the number of objects counted. The number of objects is the same regardless of their arrangement or the order in which they were counted.</i> <i>c. Understand that each successive number name refers to a quantity that is one larger.</i>	<b>K.CC.4</b>	Understand the relationship between numbers and quantities; connect counting to cardinality.
<b>K.CC.B.5</b>	Count to answer "how many?" questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1-20, count out that many objects.	<b>K.CC.5</b>	Count to answer "how many?" questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1-20, count out that many objects.
<b>K.CC.C.6</b>	Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies (Include groups with up to ten objects).	<b>K.CC.6</b>	Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies.
<b>K.CC.C.7</b>	Compare two numbers between 1 and 10 presented as written numerals.	<b>K.CC.7</b>	Compare two numbers between 1 and 10 presented as written numerals.
<b>Number and Operations in Base Ten (NBT)</b>			
<b>K.NBT.A.1</b>	Compose and decompose numbers from 11 to 19 into a group of ten ones and some further ones by using objects and, when appropriate, drawings or equations; understand that these numbers are composed of a group of ten ones and one, two, three, four, five, six, seven, eight, or nine ones.	<b>K.NBT.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 (such as $18 = 10 + 8$ ); understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones.
<b>Operations and Algebraic Thinking (OA)</b>			
<b>K.OA.A.1</b>	Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, or verbal explanations, expressions, or equations.	<b>K.OA.1</b>	Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.
<b>K.OA.A.2</b>	Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.	<b>K.OA.2</b>	Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.

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Maryland Standards for Mathematical Practice		Simple Solutions Standards	
<b>K.OA.A.3</b>	Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawing, and record each decomposition by a drawing or equation (e.g., $5 = 2 + 3$ and $5 = 4 + 1$ ).	<b>K.OA.3</b>	Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawings, and record each decomposition by a drawing or equation. (e.g., $5 = 2 + 3$ and $5 = 4 + 1$ ).
<b>K.OA.A.4</b>	For any number from 1 to 9, find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or an equation.	<b>K.OA.4</b>	For any number from 1 to 9, find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or equation.
<b>K.OA.A.5</b>	Fluently add and subtract within 5.	<b>K.OA.5</b>	Fluently add and subtract within 5.
<b>Geometry (G)</b>			
<b>K.G.A.1</b>	Describe objects in the environment using names of shapes, and describe the relative positions of these objects using terms such as <i>above</i> , <i>below</i> , <i>beside</i> , <i>in front of</i> , <i>behind</i> , and <i>next to</i> .	<b>K.G.1</b>	Describe objects in the environment using names of shapes, and describe the relative positions of these objects using terms such as above, below, beside, in front of, behind, and next to.
<b>K.G.A.2</b>	Correctly name shapes regardless of their orientations or overall size.	<b>K.G.2</b>	Correctly name shapes regardless of their orientations or overall size.
<b>K.G.A.3</b>	Identify shapes as two-dimensional (lying in a plane, "flat") or three-dimensional ("solid").	<b>K.G.3</b>	Identify shapes as two-dimensional (lying in a plane, "flat") or three-dimensional ("solid").
<b>K.G.B.4</b>	Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices/"corners") and other attributes (e.g., having sides of equal length).	<b>K.G.4</b>	Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices/"corners") and other attributes (e.g., having sides of equal length).
<b>K.G.B.5</b>	Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes.	<b>K.G.5</b>	Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes.
<b>K.G.B.6</b>	Combine simple shapes to form larger shapes. <i>For example, "Can you join these two triangles with full sides touching to make a rectangle?"</i>	<b>K.G.6</b>	Compose simple shapes to form larger shapes.
<b>Measurement and Data (MD)</b>			
<b>K.MD.A.1</b>	Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.	<b>K.MD.1</b>	Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.
<b>K.MD.A.2</b>	Directly compare two objects with a measurable attribute in common to see which object has "more of" or "less of" the attribute, and describe the difference. <i>For example, directly compare the heights of two children, and describe one child as taller/shorter.</i>	<b>K.MD.2</b>	Directly compare two objects with a measurable attribute in common, to see which object has "more of"/"less of" the attribute, and describe the difference.
<b>K.MD.B.3</b>	Classify objects into given categories; count the number of objects in each category and sort the categories by count (Limit category counts to be less than or equal to 10).	<b>K.MD.3</b>	Classify objects into given categories; count the numbers of objects in each category and sort the categories by count.

# Level 1 - Mathematics

Maryland Standards for Mathematical Practice		Simple Solutions Standards	
<i>Number and Operations in Base Ten (NBT)</i>			
<b>1.NBT.A.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.	<b>1.NBT.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.
<b>1.NBT.B.2</b>	Understand that the two digits of a two-digit number represent amounts of tens and ones. <i>A) Understand the following as a special case: 10 can be thought of as a bundle of ten ones -- called a "ten." B) Understand the following as a special case: The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones. C) Understand the following as a special case: The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones).</i>	<b>1.NBT.2</b>	Understand that the two digits of a two-digit number represent amounts of tens and ones.
<b>1.NBT.B.3</b>	Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols $>$ , $=$ , and $<$ .	<b>1.NBT.3</b>	Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols $>$ , $=$ , and $<$ .
<b>1.NBT.C.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; record the strategy with a written numerical method (drawings and, when appropriate, equations) and explain the reasoning used. Understand that when adding two-digit numbers, tens are added to tens; ones are added to ones; and sometimes it is necessary to compose a ten.	<b>1.NBT.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 reasoning 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.
<b>1.NBT.C.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.	<b>1.NBT.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.
<b>1.NBT.C.6</b>	Subtract multiples of 10 in the range of 10-90 from multiples of 10 in the range of 10-90 (positive or zero differences), 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.	<b>1.NBT.6</b>	Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90 (positive or zero differences), 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.
<i>Operations and Algebraic Thinking (OA)</i>			
<b>1.OA.A.1</b>	Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.	<b>1.OA.1</b>	Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.
<b>1.OA.A.2</b>	Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.	<b>1.OA.2</b>	Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.
<b>1.OA.B.3</b>	Apply properties of operations as strategies to add and subtract. (Students need not use formal terms for these properties.) <i>Examples: If <math>8 + 3</math> equals 11 is known, then <math>3 + 8</math> equals 11 is also known. (Commutative property of addition) To add <math>2 + 6 + 4</math>, the second two numbers can be added to make a ten, so <math>2 + 6 + 4</math> equals <math>2 + 10</math>, which equals 12. (Associative property of addition.)</i>	<b>1.OA.3</b>	Apply properties of operations as strategies to add and subtract.

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Maryland Standards for Mathematical Practice		Simple Solutions Standards	
<b>1.OA.B.4</b>	Understand subtraction as an unknown-addend problem. <i>For example, subtract 10 – 8 by finding the number that makes 10 when added to 8.</i>	<b>1.OA.4</b>	Understand subtraction as an unknown-addend problem.
<b>1.OA.C.5</b>	Relate counting to addition and subtraction, e.g., by counting on 2 to add 2.	<b>1.OA.5</b>	Relate counting to addition and subtraction (e.g., by counting on 2 to add 2).
<b>1.OA.C.6</b>	Add and subtract within 20, demonstrating fluency with various strategies for addition and subtraction within 10. Strategies may include counting on; making ten, e.g., $8 + 6 = 8 + 2 + 4 = 10 + 4 = 14$ ; decomposing a number leading to a ten, e.g., $13 - 4 = 13 - 3 - 1 = 10 - 1 = 9$ ; using the relationship between addition and subtraction, e.g., knowing that $8 + 4 = 12$ , one knows $12 - 8 = 4$ ; and creating equivalent but easier or known sums, e.g., adding $6 + 7$ by creating the known equivalent $6 + 6 + 1 = 12 + 1 = 13$ .	<b>1.OA.6</b>	Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as counting on; making ten (e.g., $8 + 6 = 8 + 2 + 4 = 10 + 4 = 14$ ); decomposing a number leading to a ten (e.g., $13 - 4 = 13 - 3 - 1 = 10 - 1 = 9$ ); using the relationship between addition and subtraction (e.g., knowing that $8 + 4 = 12$ , one knows $12 - 8 = 4$ ); and creating equivalent but easier or known sums (e.g., adding $6 + 7$ by creating the known equivalent $6 + 6 + 1 = 12 + 1 = 13$ ).
<b>1.OA.D.7</b>	Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false. <i>For example, which of the following equations are true and which are false? <math>6 = 6</math>; <math>7 = 8 - 1</math>; <math>5 + 2 = 2 + 5</math>; <math>4 + 1 = 5 + 2</math>.</i>	<b>1.OA.7</b>	Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false.
<b>1.OA.D.8</b>	Determine the unknown whole number in an addition or subtraction equation relating three whole numbers. <i>For example, determine the unknown number that makes the equation true in each of the equations <math>8 + ? = 11</math>, <math>5 = ? - 3</math>, <math>6 + 6 = ?</math>.</i>	<b>1.OA.8</b>	Determine the unknown whole number in an addition or subtraction equation relating three whole numbers.
<b>Geometry (G)</b>			
<b>1.G.A.1</b>	Distinguish between defining attributes, e.g., triangles are closed and three-sided, versus non-defining attributes, e.g., color, orientation, overall size; build and draw shapes that possess defining attributes.	<b>1.G.1</b>	Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus non-defining attributes (e.g., color, orientation, overall size); build and draw shapes to possess defining attributes.
<b>1.G.A.2</b>	Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new shapes from the composite shape.	<b>1.G.2</b>	Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new shapes from the composite shape.
<b>1.G.A.3</b>	Partition circles and rectangles into two and four equal shares, describe the shares using the words halves, fourths, and quarters, and use the phrases half of, fourth of, and quarter of. Describe the whole as two of or four of the shares in real-world contexts. Understand for these examples that decomposing into more equal shares creates smaller shares.	<b>1.G.3</b>	Partition circles and rectangles into two and four equal shares, describe the shares using the words halves, fourths, and quarters, and use the phrases half of, fourth of, and quarter of. Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.
<b>Measurement and Data (MD)</b>			
<b>1.MD.A.1</b>	Order three objects by length; compare the lengths of two objects indirectly by using a third object.	<b>1.MD.1</b>	Order three objects by length; compare the lengths of two objects indirectly by using a third object.
<b>1.MD.A.2</b>	Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.	<b>1.MD.2</b>	Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps.
<b>1.MD.B.3</b>	Tell and write time in hours and half-hours using analog and digital clocks	<b>1.MD.3</b>	Tell and write time in hours and half-hours using analog and digital clocks.
<b>1.MD.C.4</b>	Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.	<b>1.MD.4</b>	Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.

## Level 2 - Mathematics

Maryland Standards for Mathematical Practice		Simple Solutions Standards	
<i>Number and Operations in Base Ten (NBT)</i>			
<b>2.NBT.A.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 as special cases: <i>a. 100 can be thought of as a bundle of ten tens - called a "hundred." b. The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (x hundreds and 0 tens and 0 ones).</i>	<b>2.NBT.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.
<b>2.NBT.A.2</b>	Count within 1000; skip-count by 5s, 10s, and 100s.	<b>2.NBT.2</b>	Count within 1000; skip-count by 5s, 10s, and 100s.
<b>2.NBT.A.3</b>	Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.	<b>2.NBT.3</b>	Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.
<b>2.NBT.A.4</b>	Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using $>$ , $=$ , and $<$ symbols to record the results of comparisons.	<b>2.NBT.4</b>	Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using $>$ , $=$ , and $<$ symbols to record the results of comparisons.
<b>2.NBT.B.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.	<b>2.NBT.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.
<b>2.NBT.6</b>	Add up to four two-digit numbers using strategies based on place value, properties of operations.	<b>2.NBT.6</b>	Add up to four two-digit numbers using strategies based on place value and properties of operations.
<b>2.NBT.B.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. Understand that in adding or subtracting 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.	<b>2.NBT.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. Understand that in adding or subtracting 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.
<b>2.NBT.B.8</b>	Use place value understanding and properties of operations to add and subtract. Mentally add 10 or 100 to a given number 100-900, and mentally subtract 10 or 100 from a given number 100-900.	<b>2.NBT.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.
<b>2.NBT.B.9</b>	Explain why addition and subtraction strategies work, using place value and the properties of operations.	<b>2.NBT.9</b>	Explain why addition and subtraction strategies work, using place value and the properties of operations.











































