

PA Common Core Standards Checklist for Math-1st Grade fall 2013

| NUMBERS & OPERATIONS | ALGEBRAIC CONCEPTS | GEOMETRY | MEASUREMENT & DATA |
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| <p>Extends the counting sequence.</p> <ul style="list-style-type: none"> Count to 120, starting at any number less than 120. Read and write numbers to 120. Represent a number of objects to 120 with a written numeral. <p>Understands place value.</p> <ul style="list-style-type: none"> Understand that the two digits of a two-digit number represent amounts of tens and ones. Understand how to represent numbers from 11 to 19 as a 10 and ones. Understand that 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to tens with no ones. Compare numbers to 20 using the symbols $>$, $=$, and $<$. Compare two 2-digit numbers using the symbols $>$, $=$, and $<$. <p>Uses place value understanding and properties of operations to add and subtract.</p> <ul style="list-style-type: none"> Add within 100 using models or drawings. Add a two-digit number and a one-digit number. Add a two-digit number and a multiple of 10. Add two two-digit numbers, with or without composing a ten. Mentally find 10 more or 10 less than any two-digit number. Subtract with multiples of 10 using models or drawings. Subtract with multiples of 10 using place value. Subtract with multiples of 10 by relating to addition. | <p>Represents and solves problems involving addition and subtraction.</p> <ul style="list-style-type: none"> Relate counting on or back to adding or subtracting. Add fluently within 10. Subtract fluently within 10. Find sums greater than 10 by breaking apart to make 10. Subtract from numbers greater than 10 by breaking apart to make 10. Subtract by recalling addition facts. Add within 20 (using various strategies). Subtract within 20 (using various strategies). Add and subtract within 20 to solve story problems about combining or separating. Add and subtract within 20 to solve story problems about comparing. Use objects or drawings to represent story problems. Use equations to represent story problems. Add three numbers with sums to 20 to solve story problems. <p>Understands and applies properties of operations and the relationship between addition and subtraction.</p> <ul style="list-style-type: none"> Apply the commutative property for addition. Apply the associative property when adding three numbers. Relate subtraction to finding a missing addend. Determine if equations involving addition and/or subtraction are true or false. Find a missing number in an addition equation. Find a missing number in a subtraction equation. | <p>Reasons with shapes and their attributes.</p> <ul style="list-style-type: none"> Sort shapes by a defining attribute such as the number of sides. Draw shapes with a given defining attribute. Combine two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) to create a composite shape. Combine three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape. <p>Understands fractions.</p> <ul style="list-style-type: none"> Partition circles and rectangles into two and four equal shares. Describe shares of wholes using the words halves, fourths, and quarters. | <p>Measures lengths indirectly and by repeating length units.</p> <ul style="list-style-type: none"> Order three objects by length. Compare the lengths of two objects indirectly by using a third object. Repeat a short object end-to-end to measure a longer object. When measuring, know that there cannot be gaps or overlaps. <p>Works with time and money.</p> <ul style="list-style-type: none"> Tell and write time in hours using analog clocks. Tell and write time in half-hours using analog clocks. Tell and write time in hours and half-hours using digital clocks. Identifies and tells the value of the penny, nickel and dime. Count mixed sets of pennies, nickels and dimes. <p>Represents and interprets data.</p> <ul style="list-style-type: none"> Organize and represent data with up to three categories. Interpret data with up to three categories. |