

**Mathematics Florida Standards (MAFS)
Grade 1**

Domain: OPERATIONS AND ALGEBRAIC THINKING

Cluster 1: Represent and solve problems involving addition and subtraction.

STANDARD CODE	STANDARD
MAFS.1.OA.1.1	Use addition and subtraction within 20 to solve word problems ¹ 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 (¹ Students are not required to independently read the word problems.) <i>Cognitive Complexity:</i> Level 2: Basic Application of Skills & Concepts
MAFS.1.OA.1.2	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. <i>Cognitive Complexity:</i> Level 2: Basic Application of Skills & Concepts

Cluster 2: Understand and apply properties of operations and the relationship between addition and

STANDARD CODE	STANDARD
MAFS.1.OA.2.3	Apply properties of operations as strategies to add and subtract. <i>Examples: If $8 + 3 = 11$ is known, then $3 + 8 = 11$ is also known. (Commutative property of addition.) To add $2 + 6 + 4$, the second two numbers can be added to make a ten, so $2 + 6 + 4 = 2 + 10 = 12$. (Associative property of addition.)</i> <i>Cognitive Complexity:</i> Level 2: Basic Application of Skills & Concepts
MAFS.1.OA.2.4	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> <i>Cognitive Complexity:</i> Level 2: Basic Application of Skills & Concepts

Cluster 3: Add and subtract within 20.

STANDARD CODE	STANDARD
MAFS.1.OA.3.5	Relate counting to addition and subtraction (e.g., by counting on 2 to add 2). <i>Cognitive Complexity:</i> Level 1: Recall
MAFS.1.OA.3.6	Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as counting on; making ten (e.g., $8 + 6 = 8 + 2 + 4 = 10 + 4$)

	<p>= 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 $6 + 6 + 1 = 12 + 1 = 13$).</p> <p><i>Cognitive Complexity:</i> Level 2: Basic Application of Skills & Concepts</p>
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Cluster 4: Work with addition and subtraction equations.	
STANDARD CODE	STANDARD
MAFS.1.OA.4.7	<p>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? $6 = 6$, $7 = 8 - 1$, $5 + 2 = 2 + 5$, $4 + 1 = 5 + 2$.</i></p> <p><i>Cognitive Complexity:</i> Level 2: Basic Application of Skills & Concepts</p>
MAFS.1.OA.4.8	<p>Determine the unknown whole number in an addition or subtraction equation relating to three whole numbers. <i>For example, determine the unknown number that makes the equation true in each of the equations $8 + ? = 11$, $5 = [] - 3$, $6 + 6 = []$.</i></p> <p><i>Cognitive Complexity:</i> Level 2: Basic Application of Skills & Concepts</p>

Domain: NUMBER AND OPERATIONS IN BASE TEN	
Cluster 1: Extend the counting sequence.	
STANDARD CODE	STANDARD
MAFS.1.NBT.1.1	<p>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><i>Cognitive Complexity:</i> Level 1: Recall</p>

Cluster 2: Understand place value.	
STANDARD CODE	STANDARD
MAFS.1.NBT.2.2	<p>Understand that the two digits of a two-digit number represent amounts of tens and ones.</p> <ol style="list-style-type: none"> 10 can be thought of as a bundle of ten ones — called a “ten.” The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones. 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). Decompose two-digit numbers in multiple ways (e.g., 64 can be decomposed into 6 tens and 4 ones or into 5 tens and 14 ones). <p><i>Cognitive Complexity:</i> Level 2: Basic Application of Skills & Concepts</p>

MAFS.1.NBT.2.3	Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols $>$, $=$, and $<$. <i>Cognitive Complexity:</i> Level 2: Basic Application of Skills & Concepts
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Cluster 3: Use place value understanding and properties of operations to add and subtract. (Additional Cluster)

Don't sort clusters from Major to Supporting, and then teach them in that order. To do so would strip the coherence of the mathematical ideas and miss the opportunity to enhance the major work of the grade with the supporting clusters.

STANDARD CODE	STANDARD
MAFS.1.NBT.3.4	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. <i>Cognitive Complexity:</i> Level 2: Basic Application of Skills & Concepts
MAFS.1.NBT.3.5	Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used. <i>Cognitive Complexity:</i> Level 2: Basic Application of Skills & Concepts
MAFS.1.NBT.3.6	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>Cognitive Complexity:</i> Level 2: Basic Application of Skills & Concepts

Domain: MEASUREMENT AND DATA

Cluster 1: Measure lengths indirectly and by iterating length units.

STANDARD CODE	STANDARD
MAFS.1.MD.1.1	Order three objects by length; compare the lengths of two objects indirectly by using a third object. <i>Cognitive Complexity:</i> Level 2: Basic Application of Skills & Concepts
MAFS.1.MD.1.a	Understand how to use a ruler to measure length to the nearest inch. a. Recognize that the ruler is a tool that can be used to measure the attribute of length. b. Understand the importance of the zero point and end point and that the length measure is the span between two points.

	c. Recognize that the units marked on a ruler have equal length intervals and fit together with no gaps or overlaps. These equal interval distances can be counted to determine the overall length of an object.
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Cluster 2: Work with time and money.

MAFS.1.MD.2.3	Tell and write time in hours and half-hours using analog and digital clocks. <i>Cognitive Complexity:</i> Level 1: Recall
MAFS.1.MD.2.a	Identify and combine values of money in cents up to one dollar working with a single unit of currency ¹ . a. Identify the value of coins (pennies, nickels, dimes, quarters). b. Compute the value of combinations of coins (pennies and/or dimes). c. Relate the value of pennies, dimes, and quarters to the dollar (e.g., There are 100 pennies <i>or</i> ten dimes <i>or</i> four quarters in one dollar.) (¹ Students are not expected to understand the decimal notation for combinations of dollars and cents.)

Cluster 3: Represent and interpret data. (Supporting Cluster)

STANDARD CODE	STANDARD
MAFS.1.MD.3.4	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. <i>Cognitive Complexity:</i> Level 3: Strategic Thinking & Complex Reasoning

Domain: GEOMETRY

Cluster 1: Reason with shapes and their attributes. (Supporting Cluster)

Don't sort clusters from Major to Supporting, and then teach them in that order. To do so would strip the coherence of the mathematical ideas and miss the opportunity to enhance the major work of the grade with the supporting clusters.

STANDARD CODE	STANDARD
MAFS.1.G.1.1	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. <i>Cognitive Complexity:</i> Level 2: Basic Application of Skills & Concepts
MAFS.1.G.1.2	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

	<p>a composite shape, and compose new shapes from the composite shape.</p> <p><i>Cognitive Complexity:</i> Level 2: Basic Application of Skills & Concepts</p>
MAFS.1.G.1.3	<p>Partition circles and rectangles into two and four equal shares, describe the shares using the words <i>halves</i>, <i>fourths</i>, and <i>quarters</i>, and use the phrases <i>half of</i>, <i>fourth of</i>, and <i>quarter of</i>. Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.</p> <p><i>Cognitive Complexity:</i> Level 2: Basic Application of Skills & Concepts</p>

