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**Access Mathematics**

**Grade Kindergarten**

**(#7712015)**

# Course Standards

[MA.K.AR.1.1:](https://www.cpalms.org//PreviewStandard/Preview/15241)For any number from 1 to 9, find the number that makes 10 when added to the given number.

**Clarifications:**
*Clarification 1:* Instruction includes creating a ten using manipulatives, number lines, models and drawings.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
|  [MA.K.AR.1.AP.1:](https://www.cpalms.org/PreviewAccessPoint/Preview/18412) | For any number from 1 to 9, find the number that makes 10 when added to the given number. |  |  |  |
| EssentialUnderstandings | * Recognize that a full 10-frame represents the number 10
* Use 1-to-1 correspondence to count up to 10 objects
* Understand addition as “adding to”
* Discriminate between the group of objects being “added to” and the group of objects being added
 |  |  |  |
| Resources:  | [Element Card](https://www.accesstofls.org/core_curriculum_resources/Math/BEST/Element_Cards/Elementary/K/MA.K.AR.1.1_ADA.docx) |  |  |  |

[MA.K.AR.1.2:](https://www.cpalms.org//PreviewStandard/Preview/15242) Given a number from 0 to 10, find the different ways it can be represented as the sum of two numbers.

**Clarifications:**
*Clarification 1:* Instruction includes the exploration of finding possible pairs to make a sum using manipulatives, objects, drawings and expressions; and understanding how the different representations are related to each other.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.AR.1.AP.2:](https://www.cpalms.org/PreviewAccessPoint/Preview/18413)  | Given a number from 0 to 5, find the different ways it can be represented as the sum of two numbers. |  |  |  |
| EssentialUnderstandings | * Use 1-to-1 correspondence to count up to 5
* Discriminate between the whole and the parts
 |  |  |  |
| Resources: | [Element Card](https://www.accesstofls.org/core_curriculum_resources/Math/BEST/Element_Cards/Elementary/K/MA.K.AR.1.2_ADA.docx) |  |  |  |

[MA.K.AR.1.3:](https://www.cpalms.org//PreviewStandard/Preview/15243) Solve addition and subtraction real-world problems using objects, drawings or equations to represent the problem.

**Clarifications:**
*Clarification 1:* Instruction includes understanding the context of the problem, as well as the quantities within the problem.
*Clarification 2:* Students are not expected to independently read word problems.

*Clarification 3:* Addition and subtraction are limited to sums within 10 and related subtraction facts. Refer to [Situations Involving Operations with Numbers (Appendix A)](https://cpalmsmediaprod.blob.core.windows.net/uploads/docs/standards/best/ma/appendixa.pdf).

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
|  [MA.K.AR.1.AP.3:](https://www.cpalms.org/PreviewAccessPoint/Preview/18414) | Solve addition and subtraction real-world problems within 5 using objects, drawings or equations to represent the problem. |  |  |  |
| EssentialUnderstandings | * Represent addition and subtraction situations involving “adding to” and “taking from” with objects
* Add or subtract within 5
 |  |  |  |
| Resources: | [Element Card](https://www.accesstofls.org/core_curriculum_resources/Math/BEST/Element_Cards/Elementary/K/MA.K.AR.1.3_ADA.docx)  |  |  |  |

[MA.K.AR.2.1:](https://www.cpalms.org//PreviewStandard/Preview/15244) Explain why addition or subtraction equations are true using objects or drawings.

**Clarifications:**
*Clarification 1:* Instruction focuses on the understanding of the equal sign.

*Clarification 2:* Problem types are limited to an equation with two or three terms. The sum or difference can be on either side of the equal sign.
*Clarification 3*: Addition and subtraction are limited to sums within 20 and related subtraction facts.

**Related Access Points**

| **Name** |  | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- | --- |
|  [MA.K.AR.2.AP.1:](https://www.cpalms.org/PreviewAccessPoint/Preview/18415)  | Show that an addition or subtraction equation within 5 is true using objects or drawings. |  |  |  |  |
| EssentialUnderstandings  | * Understand addition as “adding to” and subtraction as “taking from”
* Understand the concept of “equality” as the balance of two values (e.g., a balance scale is level if the values are equal) and understand that if the values on either side of the equal sign are the same, then the equation is true
* Understand that = is “equal to”
* Given an addition or subtraction equation (e.g., 2 + 3 = 5; 4 - 1 = 3), use objects or drawings to represent the addition or subtraction within 5
 |  |  |  |  |
| Resources: | [Element Card](https://www.accesstofls.org/core_curriculum_resources/Math/BEST/Element_Cards/Elementary/K/MA.K.AR.2.1_ADA.docx)  |  |  |  |  |

[MA.K.DP.1.1:](https://www.cpalms.org//PreviewStandard/Preview/15253) Collect and sort objects into categories and compare the categories by counting the objects in each category. Report the results verbally, with a written numeral or with drawings.

**Clarifications:**
*Clarification 1:* Instruction focuses on supporting work in counting.

*Clarification 2:* Instruction includes geometric figures that can be categorized using their defining attributes.

*Clarification 3:* Within this benchmark, it is not the expectation for students to construct formal representations or graphs on their own.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.DP.1.AP.1:](https://www.cpalms.org/PreviewAccessPoint/Preview/18426)  | Sort objects by characteristic (e.g., size, shape or color). Count the objects in each category and report the results. |  |  |  |
| EssentialUnderstandings | * Understand the concept of “same”
* Recognize similarities in size, shape, or color
* Use 1:1 correspondence to count up to 10 objects
* Demonstrate that counting has cardinality in the numbers (last number named when counting tells the number of objects counted)
 |  |  |  |
| Resources: |  |  |  |  |

### [MA.K.GR.1.1:](https://www.cpalms.org//PreviewStandard/Preview/15248)

Identify two- and three-dimensional figures regardless of their size or orientation. Figures are limited to circles, triangles, rectangles, squares, spheres, cubes, cones and cylinders.

**Clarifications:**
*Clarification 1:* Instruction includes a wide variety of circles, triangles, rectangles, squares, spheres, cubes, cones and cylinders.
*Clarification 2:* Instruction includes a variety of non-examples that lack one or more defining attributes.
*Clarification 3:* Two-dimensional figures can be either filled, outlined or both.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.GR.1.AP.1:](https://www.cpalms.org/PreviewAccessPoint/Preview/18419) | Identify two- and three-dimensional figures regardless of their size. Figures are limited to circles, triangles, rectangles, squares, spheres, cubes, cones and cylinders. |  |  |  |
| EssentialUnderstandings | Recognize the defining attributes of circles, triangles, rectangles, squares, spheres, cubes, cones, and cylinders |  |  |  |
| Resources: |  |  |  |  |

[MA.K.GR.1.2:](https://www.cpalms.org//PreviewStandard/Preview/15249) Compare two-dimensional figures based on their similarities, differences and positions. Sort two-dimensional figures based on their similarities and differences. Figures are limited to circles, triangles, rectangles and squares.

**Clarifications:**
*Clarification 1:* Instruction includes exploring figures in a variety of sizes and orientations.

*Clarification 2:* Instruction focuses on using informal language to describe relative positions and the similarities or differences between figures when comparing and sorting.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.GR.1.AP.2a:](https://www.cpalms.org/PreviewAccessPoint/Preview/18420) | Sort two-dimensional figures based on their similarities. Figures are limited to circles, triangles, rectangles and squares. |  |  |  |
| EssentialUnderstandings | Understand the concept of “same”Understand objects can be sorted by various attributes |  |  |  |
| Resources: |  |  |  |  |
| [MA.K.GR.1.AP.2b:](https://www.cpalms.org/PreviewAccessPoint/Preview/18421)  | Use informal spatial language to describe the relative positions of two-dimensional figures (e.g., above, below, beside, next to, under). |  |  |  |
| EssentialUnderstandings | Recognize the presence of two separate figures in a given fieldUnderstand the relationship between objects can be described using their position |  |  |  |
| Resources: |  |  |  |  |

[MA.K.GR.1.3:](https://www.cpalms.org//PreviewStandard/Preview/15250) Compare three-dimensional figures based on their similarities, differences and positions. Sort three-dimensional figures based on their similarities and differences. Figures are limited to spheres, cubes, cones and cylinders.

**Clarifications:**
*Clarification 1:* Instruction includes exploring figures in a variety of sizes and orientations.

*Clarification 2:* Instruction focuses on using informal language to describe relative positions and the similarities or differences between figures when comparing and sorting.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.GR.1.AP.3a:](https://www.cpalms.org/PreviewAccessPoint/Preview/18422)  | Sort three-dimensional figures based on their similarities. Figures are limited to spheres, cubes, cones and cylinders. |  |  |  |
| EssentialUnderstandings | Understand concept of “same”Understand objects can be sorted by various attributes |  |  |  |
| Resources: |  |  |  |  |
| [MA.K.GR.1.AP.3b:](https://www.cpalms.org/PreviewAccessPoint/Preview/18423) | Use informal spatial language to describe the relative positions of three-dimensional figures (e.g., above, below, beside, next to, under). |  |  |  |
| EssentialUnderstandings | Recognize the presence of two separate figures in a given fieldUnderstand the relationship between objects can be described using their position |  |  |  |
| Resources: |  |  |  |  |

[MA.K.GR.1.4:](https://www.cpalms.org/PreviewStandard/Preview/15251) Find real-world objects that can be modeled by a given two- or three-dimensional figure. Figures are limited to circles, triangles, rectangles, squares, spheres, cubes, cones and cylinders.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.GR.1.AP.4:](https://www.cpalms.org/PreviewAccessPoint/Preview/18424)  | Explore real-world objects that can be modeled by a given two- or three-dimensional figure. Figures are limited to circles, triangles, rectangles, squares, spheres, cubes, cones and cylinders. |  |  |  |
| EssentialUnderstandings | Recognize the defining attributes of circles, triangle, rectangles, squares, spheres, cubes, cones and cylinders |  |  |  |
| Resources: |  |  |  |  |

[MA.K.GR.1.5:](https://www.cpalms.org//PreviewStandard/Preview/15252) Combine two-dimensional figures to form a given composite figure. Figures used to form a composite shape are limited to triangles, rectangles and squares.

**Clarifications:**
*Clarification 1:* This benchmark is intended to develop the understanding of spatial relationships.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.GR.1.AP.5:](https://www.cpalms.org/PreviewAccessPoint/Preview/18425)  | Recognize that a different figure can be formed by combining two smaller two-dimensional figures. Figures used to form a composite shape are limited to triangles, rectangles and squares. |  |  |  |
| EssentialUnderstandings | Differentiate between “smaller” and “larger” figures |  |  |  |
| Resources: |  |  |  |  |

[MA.K.M.1.1:](https://www.cpalms.org//PreviewStandard/Preview/15245) Identify the attributes of a single object that can be measured such as length, volume or weight.

**Clarifications:**
*Clarification 1:* Within this benchmark, measuring is not required.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.M.1.AP.1:](https://www.cpalms.org/PreviewAccessPoint/Preview/18416)  | Explore the attributes of a single object that can be measured such as length or weight. |  |  |  |
| EssentialUnderstandings | Recognize the difference between length and weight |  |  |  |
| Resources:  |  |  |  |  |

[MA.K.M.1.2:](https://www.cpalms.org//PreviewStandard/Preview/15246) Directly compare two objects that have an attribute which can be measured in common. Express the comparison using language to describe the difference.

**Clarifications:**
*Clarification 1:* To directly compare length, objects are placed next to each other with one end of each object lined up to determine which one is longer.

*Clarification 2:* Language to compare length includes short, shorter, long, longer, tall, taller, high or higher. Language to compare volume includes has more, has less, holds more, holds less, more full, less full, full, empty, takes up more space or takes up less space. Language to compare weight includes heavy, heavier, light, lighter, weighs more or weighs less.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.M.1.AP.2:](https://www.cpalms.org/PreviewAccessPoint/Preview/18417) | Directly compare two objects to determine which is longer/shorter or heavier/lighter. |  |  |  |
| EssentialUnderstandings | Recognize the difference between length and weight and how each is measuredUnderstand that length can be described as longer or shorterUnderstand that weight can be described as heavier or lighter |  |  |  |
| Resources: |  |  |  |  |

[MA.K.M.1.3:](https://www.cpalms.org//PreviewStandard/Preview/15247) Express the length of an object, up to 20 units long, as a whole number of lengths by laying non-standard objects end to end with no gaps or overlaps.

**Clarifications:**
*Clarification 1:* Non-standard units of measurement are units that are not typically used, such as paper clips or colored tiles. To measure with non-standard units, students lay multiple copies of the same object end to end with no gaps or overlaps. The length is shown by the number of objects needed.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.M.1.AP.3:](https://www.cpalms.org/PreviewAccessPoint/Preview/18418) | Express the length of an object, up to 10 units long, as a whole number of lengths using non-standard objects laid end to end with no gaps or overlaps. |  |  |  |
| EssentialUnderstandings | Understand that length is an attribute of objects that can be measuredIdentify the beginning and end point of the object that needs to be measuredUnderstand that the length measurement of an object is the total number of same sized length units |  |  |  |
| Resources:  |  |  |  |  |

[MA.K.NSO.1.1:](https://www.cpalms.org//PreviewStandard/Preview/15232)Given a group of up to 20 objects, count the number of objects in that group and represent the number of objects with a written numeral. State the number of objects in a rearrangement of that group without recounting.

**Clarifications:**
*Clarification 1:* Instruction focuses on developing an understanding of cardinality and one-to-one correspondence.

*Clarification 2:* Instruction includes counting objects and pictures presented in a line, rectangular array, circle or scattered arrangement. Objects presented in a scattered arrangement are limited to 10.

*Clarification 3:* Within this benchmark, the expectation is not to write the number in word form.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.NSO.1.AP.1:](https://www.cpalms.org/PreviewAccessPoint/Preview/18401) | Given a group of up to 10 objects, count the number of objects in that group and represent the number by identifying the written numeral. Express the number of objects in a rearrangement of that group without recounting. |  |  |  |
| EssentialUnderstandings | Express number names (rote count) up to 10Understand that counting has cardinality in the numbers (last number named when counting tells the number of objects counted)Identify the written numeral when given the name of the numeral up to 10Understand that the total number of objects in a group remains the same if no objects are added to or removed from the group |  |  |  |
| Resources:  | [Element Card](https://www.accesstofls.org/core_curriculum_resources/Math/BEST/Element_Cards/Elementary/K/MA.K.NSO.1.1_ADA.docx) |  |  |  |

[MA.K.NSO.1.2:](https://www.cpalms.org//PreviewStandard/Preview/15233) Given a number from 0 to 20, count out that many objects.

**Clarifications:**
*Clarification 1:* Instruction includes giving a number verbally or with a written numeral.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.NSO.1.AP.2:](https://www.cpalms.org/PreviewAccessPoint/Preview/18402)  |  Given a number from 0 to 10, count out that many objects. |  |  |  |
| EssentialUnderstandings | Express number names (rote count) up to 10Use 1:1 correspondence to count up to 10 objects when arranged in a line or scattered formationUnderstand that counting has cardinality in the numbers (last number named when counting out objects tells the total number of objects counted out) |  |  |  |
| Resources:  | [Element Card](https://www.accesstofls.org/core_curriculum_resources/Math/BEST/Element_Cards/Elementary/K/MA.K.NSO.1.2_ADA.docx) |  |  |  |

[MA.K.NSO.1.3:](https://www.cpalms.org//PreviewStandard/Preview/15234) Identify positions of objects within a sequence using the words “first,” “second,” “third,” “fourth” or “fifth.”

**Clarifications:**
*Clarification 1:* Instruction includes the understanding that rearranging a group of objects does not change the total number of objects but may change the order of an object in that group.

### Related Access Points

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.NSO.1.AP.3:](https://www.cpalms.org/PreviewAccessPoint/Preview/18403) | Identify the “first,” “second” or “third” object within a sequence. |  |  |  |
| EssentialUnderstandings | Understand the positional terms “first,” “second,” and “third” |  |  |  |
| Resources: | [Element Card](https://www.accesstofls.org/core_curriculum_resources/Math/BEST/Element_Cards/Elementary/K/MA.K.NSO.1.3_ADA.docx) |  |  |  |

[MA.K.NSO.1.4:](https://www.cpalms.org//PreviewStandard/Preview/15235) Compare the number of objects from 0 to 20 in two groups using the terms less than, equal to or greater than.

**Clarifications:**
*Clarification 1:* Instruction focuses on matching, counting and the connection to addition and subtraction.

*Clarification 2:* Within this benchmark, the expectation is not to use the relational symbols =,> or <.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.NSO.1.AP.4:](https://www.cpalms.org/PreviewAccessPoint/Preview/18404)  | Compare the number of objects from 0 to 10 in two groups to determine which group is greater or less, or if the number of objects in the two groups are equal. |  |  |  |
| EssentialUnderstandings | Align objects 1-to-1Understand the concepts “more” or “less”Understand the concept of “greater than” as more objects, “less than” as fewer objects, and “equal to” as the same number of objects |  |  |  |
| Resources: | [Element Card](https://www.accesstofls.org/core_curriculum_resources/Math/BEST/Element_Cards/Elementary/K/MA.K.NSO.1.4_ADA.docx) |  |  |  |

[MA.K.NSO.2.1:](https://www.cpalms.org//PreviewStandard/Preview/15236) Recite the number names to 100 by ones and by tens. Starting at a given number, count forward within 100 and backward within 20.

**Clarifications:**
*Clarification 1:* When counting forward by ones, students are to say the number names in the standard order and understand that each successive number refers to a quantity that is one larger. When counting backward, students are to understand that each succeeding number in the count sequence refers to a quantity that is one less.

*Clarification 2:* Within this benchmark, the expectation is to recognize and count to 100 by the end of Kindergarten.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.NSO.2.AP.1:](https://www.cpalms.org/PreviewAccessPoint/Preview/18407)  | Express number names from 1 to 100 by ones and from 10 to 100 by tens. Starting at a given number, count forward to 20 and backwards within 10. |  |  |  |
| EssentialUnderstandings | Understand there is a consistent order when countingUnderstand the concepts of “forward” and “backward” |  |  |  |
| Resources:  | [Element Card](https://www.accesstofls.org/core_curriculum_resources/Math/BEST/Element_Cards/Elementary/K/MA.K.NSO.2.1_ADA.docx) |  |  |  |

### [MA.K.NSO.2.2:](https://www.cpalms.org//PreviewStandard/Preview/15237) Represent whole numbers from 10 to 20, using a unit of ten and a group of ones, with objects, drawings and expressions or equations.

### Related Access Points

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.NSO.2.AP.2:](https://www.cpalms.org/PreviewAccessPoint/Preview/18408)  | Represent whole numbers from 10 to 19, using one group of 10 ones and some further ones, with objects, drawings or verbalization. |  |  |  |
| EssentialUnderstandings | Express number names (rote count) from 10-19Use 1:1 correspondence to represent one group of 10 objects in a 10-frameRecognize that a full 10-frame represents 1 group of 10 onesUse 1:1 correspondence with objects to count on from a full 10-frame up to 19 |  |  |  |
| Resources: | [Element Card](https://www.accesstofls.org/core_curriculum_resources/Math/BEST/Element_Cards/Elementary/K/MA.K.NSO.2.2_ADA.docx) |  |  |  |

[MA.K.NSO.2.3:](https://www.cpalms.org//PreviewStandard/Preview/15238) Locate, order and compare numbers from 0 to 20 using the number line and terms less than, equal to or greater than.

**Clarifications:**
*Clarification 1:* Within this benchmark, the expectation is not to use the relational symbols =,> or <.
*Clarification 2:* When comparing numbers from 0 to 20, both numbers are plotted on the same number line.
*Clarification 3:* When locating numbers on the number line, the expectation includes filling in a missing number by counting from left to right on the number line.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.NSO.2.AP.3:](https://www.cpalms.org/PreviewAccessPoint/Preview/18409)  | Locate and compare two numbers from 0 to 10 to determine which number is less than, equal to or greater than the other number. |  |  |  |
| EssentialUnderstandings | Understand the concept of “greater than” as more objects, “less than” as fewer objects, and “equal to” as the same number of objectsUse objects to represent given numbers from 0 to 10Use 1-to-1 matching of objects to determine which number represents a group that has more (is greater than) or fewer (is less than), or if the numbers represent groups that have the same number of objects (are equal)Express number names (rote count) from 1-10Understand the concept of “greater than” as a higher number, “less than” as a lower number, and “equal to” as the same number |  |  |  |
| Resources:  | [Element Card](https://www.accesstofls.org/core_curriculum_resources/Math/BEST/Element_Cards/Elementary/K/MA.K.NSO.2.3_ADA.docx) |  |  |  |

[MA.K.NSO.3.1:](https://www.cpalms.org//PreviewStandard/Preview/15239) Explore addition of two whole numbers from 0 to 10, and related subtraction facts.

**Clarifications:**
*Clarification 1:* Instruction includes objects, fingers, drawings, number lines and equations.

*Clarification 2:* Instruction focuses on the connection that addition is “putting together” or “counting on” and that subtraction is “taking apart” or “taking from.” Refer to [Situations Involving Operations with Numbers (Appendix A)](https://cpalmsmediaprod.blob.core.windows.net/uploads/docs/standards/best/ma/appendixa.pdf).

*Clarification 3:* Within this benchmark, it is the expectation that one problem can be represented in multiple ways and understanding how the different representations are related to each other.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.NSO.3.AP.1:](https://www.cpalms.org/PreviewAccessPoint/Preview/18410) | Explore addition and subtraction of two whole numbers within 5 using objects. |  |  |  |
| EssentialUnderstandings | Given a real-world context use objects to represent the actions “add to” or “take from” |  |  |  |
| Resources:  | [Element Card](https://www.accesstofls.org/core_curriculum_resources/Math/BEST/Element_Cards/Elementary/K/MA.K.NSO.3.1_ADA.docx) |  |  |  |

[MA.K.NSO.3.2:](https://www.cpalms.org//PreviewStandard/Preview/15240) Add two one-digit whole numbers with sums from 0 to 10 and subtract using related facts with procedural reliability.

**Clarifications:**
*Clarification 1:*Instruction focuses on helping a student choose a method they can use reliably.

**Related Access Points**

| **Name** | **Description** | **Date(s) Instruction** | **Date(s) Assessment** | **Date Mastery** |
| --- | --- | --- | --- | --- |
| [MA.K.NSO.3.AP.2:](https://www.cpalms.org/PreviewAccessPoint/Preview/18411) | Apply a strategy for adding and subtracting two one-digit whole numbers to solve within 5. |  |  |  |
| EssentialUnderstandings | Given a real-world context use objects to represent the actions “add to” or “take from”Given an addition or subtraction expression (e.g., 2 + 3; 4 -1), use objects to represent the expression |  |  |  |
| Resources:  | [Element Card](https://www.accesstofls.org/core_curriculum_resources/Math/BEST/Element_Cards/Elementary/K/MA.K.NSO.3.2_ADA.docx) |  |  |  |

[MA.K12.MTR.1.1:](https://www.cpalms.org//PreviewStandard/Preview/15875) Actively participate in effortful learning both individually and collectively.

Mathematicians who participate in effortful learning both individually and with others:

* Analyze the problem in a way that makes sense given the task.
* Ask questions that will help with solving the task.
* Build perseverance by modifying methods as needed while solving a challenging task.
* Stay engaged and maintain a positive mindset when working to solve tasks.
* Help and support each other when attempting a new method or approach.

**Clarifications:**
Teachers who encourage students to participate actively in effortful learning both individually and with others:

* Cultivate a community of growth mindset learners.
* Foster perseverance in students by choosing tasks that are challenging.
* Develop students’ ability to analyze and problem solve.
* Recognize students’ effort when solving challenging problems.

[MA.K12.MTR.2.1:](https://www.cpalms.org//PreviewStandard/Preview/15876) Demonstrate understanding by representing problems in multiple ways.

Mathematicians who demonstrate understanding by representing problems in multiple ways:

* Build understanding through modeling and using manipulatives.
* Represent solutions to problems in multiple ways using objects, drawings, tables, graphs and equations.
* Progress from modeling problems with objects and drawings to using algorithms and equations.
* Express connections between concepts and representations.
* Choose a representation based on the given context or purpose.

**Clarifications:**
Teachers who encourage students to demonstrate understanding by representing problems in multiple ways:

* Help students make connections between concepts and representations.
* Provide opportunities for students to use manipulatives when investigating concepts.
* Guide students from concrete to pictorial to abstract representations as understanding progresses.
* Show students that various representations can have different purposes and can be useful in different situations.

[MA.K12.MTR.3.1:](https://www.cpalms.org//PreviewStandard/Preview/15877) Complete tasks with mathematical fluency.

Mathematicians who complete tasks with mathematical fluency:

* Select efficient and appropriate methods for solving problems within the given context.
* Maintain flexibility and accuracy while performing procedures and mental calculations.
* Complete tasks accurately and with confidence.
* Adapt procedures to apply them to a new context.
* Use feedback to improve efficiency when performing calculations.

**Clarifications:**
Teachers who encourage students to complete tasks with mathematical fluency:

* Provide students with the flexibility to solve problems by selecting a procedure that allows them to solve efficiently and accurately.
* Offer multiple opportunities for students to practice efficient and generalizable methods.

Provide opportunities for students to reflect on the method they used and determine if a more efficient method could have been used.

[MA.K12.MTR.4.1:](https://www.cpalms.org//PreviewStandard/Preview/15878) Engage in discussions that reflect on the mathematical thinking of self and others.

Mathematicians who engage in discussions that reflect on the mathematical thinking of self and others:

* Communicate mathematical ideas, vocabulary and methods effectively.
* Analyze the mathematical thinking of others.
* Compare the efficiency of a method to those expressed by others.
* Recognize errors and suggest how to correctly solve the task.
* Justify results by explaining methods and processes.
* Construct possible arguments based on evidence.

**Clarifications:**
Teachers who encourage students to engage in discussions that reflect on the mathematical thinking of self and others:

* Establish a culture in which students ask questions of the teacher and their peers, and error is an opportunity for learning.
* Create opportunities for students to discuss their thinking with peers.
* Select, sequence and present student work to advance and deepen understanding of correct and increasingly efficient methods.
* Develop students’ ability to justify methods and compare their responses to the responses of their peers.

[MA.K12.MTR.5.1:](https://www.cpalms.org//PreviewStandard/Preview/15879) Use patterns and structure to help understand and connect mathematical concepts.

Mathematicians who use patterns and structure to help understand and connect mathematical concepts:

* Focus on relevant details within a problem.
* Create plans and procedures to logically order events, steps or ideas to solve problems.
* Decompose a complex problem into manageable parts.
* Relate previously learned concepts to new concepts.
* Look for similarities among problems.
* Connect solutions of problems to more complicated large-scale situations.

**Clarifications:**
Teachers who encourage students to use patterns and structure to help understand and connect mathematical concepts:

* Help students recognize the patterns in the world around them and connect these patterns to mathematical concepts.
* Support students to develop generalizations based on the similarities found among problems.
* Provide opportunities for students to create plans and procedures to solve problems.
* Develop students’ ability to construct relationships between their current understanding and more sophisticated ways of thinking.

[MA.K12.MTR.6.1:](https://www.cpalms.org//PreviewStandard/Preview/15880) Assess the reasonableness of solutions.

Mathematicians who assess the reasonableness of solutions:

* Estimate to discover possible solutions.
* Use benchmark quantities to determine if a solution makes sense.
* Check calculations when solving problems.
* Verify possible solutions by explaining the methods used.
* Evaluate results based on the given context.

**Clarifications:**
Teachers who encourage students to assess the reasonableness of solutions:

* Have students estimate or predict solutions prior to solving.
* Prompt students to continually ask, “Does this solution make sense? How do you know?”
* Reinforce that students check their work as they progress within and after a task.
* Strengthen students’ ability to verify solutions through justifications.

[MA.K12.MTR.7.1:](https://www.cpalms.org//PreviewStandard/Preview/15881) Apply mathematics to real-world contexts.

Mathematicians who apply mathematics to real-world contexts:

* Connect mathematical concepts to everyday experiences.
* Use models and methods to understand, represent and solve problems.
* Perform investigations to gather data or determine if a method is appropriate. • Redesign models and methods to improve accuracy or efficiency.

**Clarifications:**
Teachers who encourage students to apply mathematics to real-world contexts:

* Provide opportunities for students to create models, both concrete and abstract, and perform investigations.
* Challenge students to question the accuracy of their models and methods.
* Support students as they validate conclusions by comparing them to the given situation.
* Indicate how various concepts can be applied to other disciplines.

[ELA.K12.EE.1.1:](https://www.cpalms.org//PreviewStandard/Preview/15201) Cite evidence to explain and justify reasoning.

**Clarifications:**
K-1 Students include textual evidence in their oral communication with guidance and support from adults. The evidence can consist of details from the text without naming the text. During 1st grade, students learn how to incorporate the evidence in their writing.

2-3 Students include relevant textual evidence in their written and oral communication. Students should name the text when they refer to it. In 3rd grade, students should use a combination of direct and indirect citations.

4-5 Students continue with previous skills and reference comments made by speakers and peers. Students cite texts that they’ve directly quoted, paraphrased, or used for information. When writing, students will use the form of citation dictated by the instructor or the style guide referenced by the instructor.

6-8 Students continue with previous skills and use a style guide to create a proper citation.

9-12 Students continue with previous skills and should be aware of existing style guides and the ways in which they differ.

[ELA.K12.EE.2.1:](https://www.cpalms.org//PreviewStandard/Preview/15202) Read and comprehend grade-level complex texts proficiently.

**Clarifications:**

See [Text Complexity](https://cpalmsmediaprod.blob.core.windows.net/uploads/docs/standards/best/la/appendixb.pdf) for grade-level complexity bands and a text complexity rubric.

[ELA.K12.EE.3.1:](https://www.cpalms.org//PreviewStandard/Preview/15203) Make inferences to support comprehension.

**Clarifications:**

Students will make inferences before the words infer or inference are introduced. Kindergarten students will answer questions like “Why is the girl smiling?” or make predictions about what will happen based on the title page. Students will use the terms and apply them in 2nd grade and beyond.

[ELA.K12.EE.4.1:](https://www.cpalms.org//PreviewStandard/Preview/15204) Use appropriate collaborative techniques and active listening skills when engaging in discussions in a variety of situations.

**Clarifications:**

In kindergarten, students learn to listen to one another respectfully.

In grades 1-2, students build upon these skills by justifying what they are thinking. For example: “I think \_\_\_\_\_\_\_\_ because \_\_\_\_\_\_\_.” The collaborative conversations are becoming academic conversations.

In grades 3-12, students engage in academic conversations discussing claims and justifying their reasoning, refining and applying skills. Students build on ideas, propel the conversation, and support claims and counterclaims with evidence.

[ELA.K12.EE.5.1:](https://www.cpalms.org//PreviewStandard/Preview/15205) Use the accepted rules governing a specific format to create quality work.

**Clarifications:**

Students will incorporate skills learned into work products to produce quality work. For students to incorporate these skills appropriately, they must receive instruction. A 3rd grade student creating a poster board display must have instruction in how to effectively present information to do quality work.

[ELA.K12.EE.6.1:](https://www.cpalms.org//PreviewStandard/Preview/15206) Use appropriate voice and tone when speaking or writing.

**Clarifications:**

In kindergarten and 1st grade, students learn the difference between formal and informal language. For example, the way we talk to our friends differs from the way we speak to adults. In 2nd grade and beyond, students practice appropriate social and academic language to discuss texts.

[ELD.K12.ELL.MA.1](https://cpalms.org/PreviewStandard/Preview/8642) English language learners communicate information, ideas and concepts necessary for academic success in the content area of Mathematics.

[ELD.K12.ELL.SI.1](https://cpalms.org/PreviewStandard/Preview/8640) English language learners communicate for social and instructional purposes within the school setting.