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**Course Name: Mathematics**

**Grade: K**

Board Approved: AUGUST 2019

\*All curriculum is aligned with the NJSLS in accordance with the Department’s curriculum implementation timeline and includes all required components (NJ.A.C.6A:8).

\*\*Resource and activity lists are compiled from all four districts and may not necessarily be reflected in each district or school.

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| **Overview** | **Standards for Mathematical Content** | **Unit Focus** | **Standards for Mathematical Practice** |
| [**Unit 1**](#30j0zll)**Connecting Counting to Cardinality**  | * K.CC.A.1\*
* K.CC.A.3\*
* K.CC.B.4
* K.CC.B.5\*
* K.OA.A.1\*
* K.MD.B.3\*
* K.G.A.1
 | * Know number names and the count sequence to 10
* Count to tell the number of objects
* Understand addition as putting together and adding to and understand subtraction as taking apart and taking from
* Identify and describe shapes
 | MP.1 Make sense of problems and persevere in solving them.MP.2 Reason abstractly and quantitatively. MP.3 Construct viable arguments and critique the reasoning of others.MP.4 Model with mathematics.MP.5 Use appropriate tools strategically.MP.6 Attend to precision.MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. |
| ***Unit 1:*** **Suggested Open Educational Resources** | [K.CC.A.1 Counting Circles](https://www.illustrativemathematics.org/content-standards/K/CC/A/1/tasks/359)[K.CC.A.1 Choral Counting](https://www.illustrativemathematics.org/content-standards/K/CC/A/1/tasks/360)[K.CC.A.3 Number TIC TAC TOE](https://www.illustrativemathematics.org/content-standards/K/CC/A/3/tasks/400)[K.CC.B.4 Counting Mat](https://www.illustrativemathematics.org/content-standards/K/CC/B/4/tasks/1209)[K.CC.B.5 Finding Equal Groups](https://www.illustrativemathematics.org/content-standards/K/CC/B/5/tasks/1420)[K.OA.A.1 Ten Frame Addition](https://www.illustrativemathematics.org/content-standards/K/OA/A/1/tasks/1406)[K.MD.B.3 Sort and Count 1](https://www.illustrativemathematics.org/content-standards/K/MD/B/3/tasks/799) |
| [**Unit 2**](#1fob9te)**Counting, Addition & Subtraction** | * K.CC.A.1\*
* K.CC.A.2
* K.CC.A.3\*
* K.OA.A.1\*
* K.OA.A.2
* K.CC.B.5\*
* K.CC.C.6
* K.CC.C.7
* K.OA.A.5\*
 | * Know number names and the count sequence to 50
* Understand addition as putting together and adding to understand subtraction as taking apart and taking from
* Count to tell the number of objects
* Compare numbers
 |
| ***Unit 2:*** **Suggested Open Educational Resources** | [K.CC.A.1 Choral Counting](https://www.illustrativemathematics.org/content-standards/K/CC/A/1/tasks/360)[K.CC.A.2 Start-Stop Counting](https://www.illustrativemathematics.org/content-standards/K/CC/A/2/tasks/361)[K.CC.A.3 Assessing Writing Numbers](https://www.illustrativemathematics.org/content-standards/K/CC/A/3/tasks/452)[K.OA.A.2 Dice Addition 2](https://www.illustrativemathematics.org/content-standards/K/OA/A/1/tasks/1405)[K.OA.A.2 What's Missing?](https://www.illustrativemathematics.org/content-standards/K/OA/A/2/tasks/70)[K.CC.B.5 Finding Equal Groups](https://www.illustrativemathematics.org/content-standards/K/CC/B/5/tasks/1420)[K.CC.C.6 Which number is greater? Which number is less? How do you know?](https://www.illustrativemathematics.org/content-standards/K/CC/C/6/tasks/1210)[K.CC.C.7 Guess the Marbles in the Bag](https://www.illustrativemathematics.org/content-standards/K/CC/C/7/tasks/697)[K.OA.A.5 Many Ways to Do Addition 1](https://www.illustrativemathematics.org/content-standards/K/OA/A/5/tasks/1409) |
| [**Unit 3**](#3znysh7)**Place Value & Measurement**  | * K.CC.A.1\*
* K.MD.A.1
* K.MD.A.2
* K.MD.B.3\*
* K.G.A.2
* K.G.A.3
* K.OA.A.3
* K.OA.A.4
* K.NBT.A.1\*
* K.OA.A.5\*
 | * Know number names and the count sequence to 70
* Describe and compare measurable attributes
* Classify and count the number of objects in categories
* Identify and describe shapes
* Understand addition as putting together and adding to understand subtraction as taking apart and taking from
* Work with numbers 11-19 to gain foundations for place value
 | MP.1 Make sense of problems and persevere in solving them.MP.2 Reason abstractly and quantitatively. MP.3 Construct viable arguments and critique the reasoning of others.MP.4 Model with mathematics.MP.5 Use appropriate tools strategically.MP.6 Attend to precision.MP.7 Look for and make use of structure. MP.8 Look for and express regularity in repeated reasoning. |
| ***Unit 3:*** **Suggested Open Educational Resources** | [K.CC.A.1 Assessing Counting Sequences Part 1](https://www.illustrativemathematics.org/content-standards/K/CC/A/1/tasks/448)[K.MD.A.1 Which is heavier?](https://www.illustrativemathematics.org/content-standards/K/MD/A/1/tasks/798)[K.MD.A.2 Which is Longer?](https://www.illustrativemathematics.org/content-standards/K/MD/A/2/tasks/1604)[K.MD.B.3 Sort and Count 2](https://www.illustrativemathematics.org/content-standards/K/MD/B/3/tasks/990)[K.OA.A.3 Shake and Spill](https://www.illustrativemathematics.org/content-standards/K/OA/A/3/tasks/165)[K.OA.A.3 Pick Two](https://www.illustrativemathematics.org/content-standards/K/OA/A/3/tasks/166)[K.NBT.A.1 What Makes a Teen Number](https://www.illustrativemathematics.org/content-standards/K/NBT/A/1/tasks/1404)[K.OA.A.5 My Book of Five](https://www.illustrativemathematics.org/content-standards/K/OA/A/5/tasks/1408) |
| [**Unit 4**](#2et92p0)**Place Value & Geometric Shapes** | * K.CC.A.1\*
* K.OA.A.5\*
* K.G.B.4
* K.G.B.5
* K.G.B.6
* K.NBT.A.1\*
 | * Know number names and the count sequence to 100
* Fluently add and subtract within 5
* Analyze, compare, create, and compose shapes
* Work with numbers 11-19 to gain foundations for place value
 |
| ***Unit 4:*****Suggested Open Educational Resources** | [K.CC.A.1 Counting by Tens](https://www.illustrativemathematics.org/content-standards/K/CC/A/1/tasks/754)[K.G.B.4 Alike or Different Game](https://www.illustrativemathematics.org/content-standards/K/G/B/4/tasks/515)[K.NBT.A.1 What Makes a Teen Number](https://www.illustrativemathematics.org/content-standards/K/NBT/A/1/tasks/1404) |

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| **Unit 1 Kindergarten** |
|  **Content Standards** | **Suggested Standards for Mathematical Practice** | **Critical Knowledge & Skills** |
| * [K.CC.A.1](http://www.corestandards.org/Math/Content/K/CC/A/1/). Count to 100 by ones and by tens. \*(benchmarked)
 | MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. | Concept(s):* Number names and the count sequence up to 10

Students are able to:* count orally by ones up to 10.

Learning Goal 1: Count by ones up to 10.  |
| * K.CC.A.3. 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). \*(benchmarked)
 | MP.2 Reason abstractly and quantitatively. MP.7 Look for and make use of structure. | Concept(s):* Represent the number of objects with a numeral.

Students are able to:* write numbers from 0 to 10.

Learning Goal 2: Represent the number of objects with a written numeral up to 10.  |
| * [K.CC.B.4](http://www.corestandards.org/Math/Content/K/CC/B/4/). Understand the relationship between numbers and quantities; connect counting to cardinality.

K.CC.B.4a.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.K.CC.B.4b.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.K.CC.B.4c.Understand that each successive number name refers to a quantity that is one larger. | MP.2 Reason abstractly and quantitatively.MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. | Concept(s):* Objects can be counted in any order. Each object is counted once (one-to-one correspondence).
* The next number name in counting is always one greater than the previous number.
* The last number name said tells the number of objects counted.

Students are able to:* say number names in the standard order.
* pair each object with one number name (one-to-one correspondence).
* count to tell the number of objects.
* count objects arranged in any order.
* identify the last number named as the number of objects counted.

Learning Goal 3: Assign an ascending number name for each object in a group.Learning Goal 4: State the last number named as the number of counted objects in the set. Learning Goal 5: Identify the next number name in counting as one greater than the  previous number. |
| * [K.CC.B.5](http://www.corestandards.org/Math/Content/K/CC/B/5/). 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. \*(benchmarked)
 | MP.2 Reason abstractly and quantitatively.MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. | Concept(s): No new concept(s) introducedStudents are able to:* count to tell the number of objects arranged in a line, rectangular array, circle, or scattered configuration.
* count to tell the number of objects when asked *how many?* questions .
* given a number from 1-10, count out that many object.

Learning Goal 6: Answer *how many?* questions about groups of up to 10 objects when  arranged in a line, rectangular array or circle.Learning Goal 7: Answer *how many?* questions about groups of up to 5 when arranged in a scattered configuration.  |
| * [K.OA.A.1](http://www.corestandards.org/Math/Content/K/OA/A/1/). Represent addition and subtraction up to 10 with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations. \*(benchmarked)
 | MP.1 Make sense of problems and persevere in solving them.MP.2 Reason abstractly and quantitatively. MP.4 Model with mathematics.MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. | Concept(s):* Understand addition as putting together and adding to.
* Understand subtraction as taking apart and taking from.

Students are able to:* create addition events with objects (up to 10).
* create addition events with drawings and sounds (up to 10).
* create addition events by acting out situations and with verbal explanations.

Learning Goal 8: Create addition events with objects, fingers, drawings, sounds (e.g.,  claps), acting out situations and verbal explanations for sums up to 10. |
| * K.MD.B.3. Classify objects into given categories; count the numbers of objects in each category and sort the categories by count \*(benchmarked)
 | MP.2 Reason abstractly and quantitatively. MP.7 Look for and make use of structure. | Concept(s):* Objects can be sorted based on their properties.

Students will be able to:* sort objects into categories

Learning Goal 9: Classify objects into given categories and count the objects in each  category (up to 10 objects) |
| * K.G.A.1. 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, and next to.
 | MP.7 Look for and make use of structure. | Concept(s):* Shapes have names.
* Positional words (above, below, besides, in front of, behind, next to)

Students will be able to:* name shapes in order to describe objects in the environment.
* use terms such as *above*, *below*, *beside*, *in front of*, *behind*, and *next to* in order to describe relative positions of objects.

Learning Goal 10: 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. |

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| **Unit 1 Kindergarten What This May Look Like** |
| **School/District Formative Assessment Plan** | **School/District Summative Assessment Plan** |
| *Teacher Observation**Exit Slips/ Drawings**Performance Assessments**Anecdotal Records* | * *Beginning of the Year Benchmark*
* *Chapter Assessments*
* *Reteach/Enrichment Resources*

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| **Focus Mathematical Concepts** |
| *Districts should consider listing prerequisites skills. Concepts that include a focus on relationships and representation might be listed as grade level appropriate.* *Suggested Lessons in the Unit***\*Represent, Count, and Write Numbers 0 to 5****\*Compare Numbers to 5** **\*Represent, Count, and Write Numbers 6 to 9****Districts should consider listing prerequisites skills. Concepts that include a focus on relationships and representation might be listed as grade level appropriate.****Prerequisite skills: Students need to understand that a representation of a set of objects matches the written numeral for the set of objects.****Common Misconceptions: K.CC.2 Counting on or counting from the given number conflicts with the learned strategy of counting from the beginning. In order to be successful in counting on, student must understand the cardinality (the number that ends the counting sequence represents how many objects are in the collection).****K.CC.3 Students may not see 0 as a number. Teachers should avoid using the word none to represent 0.****Number Fluency: Students will count by ones up to 20.** |
| **District/School Tasks** | **District/School Primary and Supplementary Resources** |
| **Activities include:*** model and count to tell the number of objects 0-5
* represent objects 0-5 with a number name and a written number
* solve problems by using the strategy make a model
* use match and count strategies to compare sets to 5
* make a model to solve problems using a matching strategy
* model and count to tell the numbers of objects 6-9
* represent objects 6-9 with a number name and a written number
* solve problems by using the strategy “draw a picture”.

**Vocabulary includes:**zero, one, two, three, four, five, set, match, pair, larger, fewer, more, compare, greater, less, same, number, six, seven, eight, nine | * *Go Math Teacher Guides and Planning Editions (Barrington/Haddon Heights/Lawnside)*
* *Envisions 2.0 Teacher Guides (Merchantville)*
* *Grab and Go Literature Connection Text*
* *Go Math Student Resource book*
* *Vocabulary Reader*
* *Manipulatives*
* *Grab-and-Go Centers Kit*
* *Go Math Workmats*
* *Digital Resources found at w*[*ww.thinkcentral.co*](http://www.thinkcentral.com)*m (Barrington, Haddon Heights/Lawnside)*
* *SMARTboard*
* *Themed Trade books*
* *Reteach (in Chapter Resources)*
* *Enrich (in Chapter Resources)*
* *Strategic Intervention Teacher Activity Guide Tier 2 and 3*
* [*https://jr.brainpop.com/*](https://jr.brainpop.com/)
* [*www.Moby*](http://www.moby) *Max.com*
* [*http://www.iseemaths.com/3-act-tasks/*](http://www.iseemaths.com/3-act-tasks/)
* [*https://quizizz.com/*](https://quizizz.com/)
 |
| **Instructional Best Practices and Exemplars** |
| **Unit Vocabulary includes:**zero, one, two, three, four, five, set, match, pair, larger, fewer, more, compare, greater, less, same, number, six, seven, eight, nine |

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| [**Interdisciplinary Connections**](http://www.state.nj.us/education/cccs/) |
| **ELA**RL..K.1. With prompting and support, ask and answer questions about key details in a text (e.g., who, what, where, when, why, how).RI.K.1. With prompting and support, ask and answer questions about key details in a text.RI.K.7. With prompting and support, describe the relationship between illustrations and the text in which they appear (e.g., what person, place, thing, or idea in the text an illustration depicts). | **Social Studies**6.1.4.B.1 Compare and contrast information that can be found on different types of maps and determine how the information may be useful.6.1.4.C.1 Apply opportunity cost (i.e., choices and tradeoffs) to evaluate individuals’ decisions, including ones made in their communities**.** | **Science**Simple tests can be designed to gather evidence to support or refute student ideas about causes. (K-PS2- 1),(K-PS2-2)With guidance, plan and conduct an investigation in collaboration with peers. (K-PS2-1) |

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| **21st Century Skills/Career Education****CRP1. Act as a responsible and contributing citizen and employee.** **CRP4. Communicate clearly and effectively and with reason.** **CRP6. Demonstrate creativity and innovation.**  | **Technology****8.1.2.A.1 Identify the basic features of a digital device and explain its purpose.****8.1.2.A.4 Demonstrate developmentally appropriate navigation skills in virtual environments.**  |  |

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| **Modifications and Accommodations** |
| **Special Education Students**small group/intentional groupingpreferred seatingdirect instructionprovide background knowledgeprovide individual/small group assistanceprovide student friendly definitions for vocabularymodified assignments (reduce/revise) provide notes/study guidesrestate/rephrasegraphic organizers, labels, word banksvisualschunkingleveled textread text, use audio when availablekinesthetic activitiesextended timebreakscheck-in/check-out system | **English Language Learners**small group/intentional groupingpreferred seatingdirect instructionprovide background knowledgeprovide individual/small group assistanceprovide student friendly definitions for vocabularymodified assignments (reduce/revise) provide notes/study guidesrestate/rephrasegraphic organizers, labels, word banksvisualschunkingleveled textread text, use audio when availablekinesthetic activitiesextended timebreakscheck-in/check-out systemTPR Total Physical Response | **Students at Risk of School Failure**small group/intentional groupingpreferred seatingdirect instructionprovide background knowledgeprovide individual/small group assistanceprovide student friendly definitions for vocabularymodified assignments (reduce/revise) provide notes/study guidesrestate/rephrasegraphic organizers, labels, word banksvisualschunkingleveled textread text, use audio when availablekinesthetic activitiesextended timebreakscheck-in/check-out system |
| **Gifted and Talented**extension projectleveled textleadership rolesintentional groupingtargeted learning from assessmentDOK higher order questionsBlooms - analyze, evaluate, create  | **Students with 504 Plans**small group/intentional groupingpreferred seatingdirect instructionprovide background knowledgeprovide individual/small group assistanceprovide student friendly definitions for vocabularymodified assignments (reduce/revise) provide notes/study guidesrestate/rephrasegraphic organizers, labels, word banksvisualschunkingleveled textread text, use audio when availablekinesthetic activitiesextended timebreakscheck-in/check-out system |  |

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| **Unit 2 Kindergarten** |
|  **Content Standards** | **Suggested Mathematical Practices** | **Critical Knowledge & Skills** |
| * [K.CC.A.1](http://www.corestandards.org/Math/Content/K/CC/A/1/). Count to 100 by ones and by tens.\*(benchmarked)
 | MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. | Concept(s):* Number names and the count sequence up to 50

Students are able to:* count orally by ones up to 50.
* count orally by tens up to 50.

Learning Goal 1: Count to 50 by ones and by tens. |
| * [K.CC.A.2](http://www.corestandards.org/Math/Content/K/CC/A/2/). Count forward beginning from a given number within the known sequence (instead of having to begin at 1).
 | Concept(s): No new concept(s) introducedStudents will be able to:* count orally by ones up to 50, beginning at any number.

Learning Goal 2: * Count forward up to 50 starting from numbers other than one.
 |
| * K.CC.A.3. 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).\*(benchmarked)
 | MP. 2 Reason abstractly and quantitatively. MP.7 Look for and make use of structure. | Concept(s):* The number of objects can be represented by a numeral.

Students are able to:* write numbers from 0 to 20.

Learning Goal 3: Represent a number of objects with a written numeral 0 to 20.  |
| * [K.OA.A.1](http://www.corestandards.org/Math/Content/K/OA/A/1/). Represent addition and subtraction up to 10 with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations. \*(benchmarked)
 | MP.1 Make sense of problems and persevere in solving them.MP. 2 Reason abstractly and quantitatively. MP.4 Model with mathematics.MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. | Concept(s):* Understand addition as putting together and adding to.
* Understand subtraction as taking apart and taking from.

Students are able to:* create subtraction and addition events with objects (up to 10).
* create subtraction and addition events with drawings and sounds (up to 10).
* create subtraction and addition events by acting out situations and with verbal explanations.

Learning Goal 4: Create addition and subtraction events with objects, fingers, drawings, sounds (e.g., claps), acting out situations and verbal explanations (up to 10). |
| * [K.OA.A.2](http://www.corestandards.org/Math/Content/K/OA/A/2/). Solve addition and subtraction word problems, and add and subtract within 10, *e.g., by using objects or drawings to represent the problem.*
 | MP.1 Make sense of problems and persevere in solving them.MP. 2 Reason abstractly and quantitatively. MP.4 Model with mathematics.MP.5 Use appropriate tools strategically. | Concept(s): No new concept(s) introducedStudents will be able to:* use objects and drawings to represent addition and subtraction.
* add and subtract within 10.

Learning Goal 5: Use objects or drawings to represent and solve addition and subtraction word problems (within 10). |
| * K.CC.B.5. 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. \*(benchmarked)

  | MP.2 Reason abstractly and quantitatively.MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. | Concept(s): No new concept(s) introducedStudents are able to:* count to tell the number of objects arranged in a line, rectangular array, circle, or scattered configuration.
* count to tell the number of objects when asked “how many?” questions.
* given a number from 1-20, count out that many object.

Learning Goal 6: Answer *how many?* questions about groups of up to 20 objects when arranged in a line, rectangular array or circle.Learning Goal 7: Answer *how many?* questions about groups of up to 10 when arranged in a scattered configuration . |
| * K.CC.C.6. 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.*
 | MP.2 Reason abstractly and quantitatively.MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. | Concept(s):* Different groups can have different numbers of objects.
* Numbers of objects can be compared using phrases such as *greater than*, *less than* and *equal to.*

Students will be able to:* compare the number of objects (up to 10) in two groups.
* identify whether the number of objects in one group is greater than, less than, or equal to to the number of objects in another group.

Learning Goal 8: Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group (groups of up to 10 objects). |
| * K.CC.C.7. Compare two numbers between 1 and 10 presented as written numerals.
 | MP.2 Reason abstractly and quantitatively. | Concept(s):* Number names and the count sequence
* The next number name in counting is always one greater than the previous number.
* Count to tell the number of objects.

Students will be able to:* compare numbers (up to 10) written as numerals.

Learning Goal 9: Compare numbers (up to 10) written as numerals. |
| * K.OA.A.5. Demonstrate fluency for addition and subtraction within 5~~.~~  (by the end of Kindergarten). \*(benchmarked)
 | MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. | Concept(s): No new concept(s) introducedStudents will be able to:* add within 5 with accuracy and efficiency .

Learning Goal 10:Use mental math strategies to solve addition facts within 5. |

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| **Unit 2 Kindergarten What This May Look Like** |

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| **School/District Formative Assessment Plan** | **School/District Summative Assessment Plan** |
| *Teacher Observation**Exit Slips/ Drawings**Performance Assessments**Anecdotal Records* | * *Beginning of the Year Benchmark*
* *Chapter Assessments*
 |
| **Focus Mathematical Concepts** |
| **\*Represent and Compare Numbers to 10****\*Addition****\*Subtraction****Districts should consider listing prerequisites skills. Concepts that include a focus on relationships and representation might be listed as grade level appropriate.****Prerequisite skills: Students should be able to demonstrate a secure understanding of numbers from 0 to 5 prior to adding or subtracting basic fact knowledge.****Common Misconceptions: K.OA.3 Students lack the understanding of how to take away or take from when solving subtraction equations.****Number Fluency: Demonstrate fluency for addition and subtraction within 5.** |
| **District/School Tasks** | **District/School Primary and Supplementary Resources** |
| **Activities include:*** model, count, and represent objects to 10 with a number name and a written number
* use a drawing to make 10 from a given number
* count forward to 10 from a given number
* use strategies to compare sets of objects
* solve problems by using the strategy make a model
* use expressions to represent addition
* use objects and drawings to solve addition word problems and record the equations
* decompose numbers into pairs in more than one way and record each decomposition with an equation
* solve problems by using the strategy act it out
* use expressions to represent subtraction
* use objects and drawings to solve addition word problems and record the equations
* understand addition as putting together or adding to and subtraction as taking apart or taking from to solve word problems
* solve problems by using the strategy “act it out”
 | * *Go Math Teacher Guides and Planning Editions (Barrington, Haddon Heights, Lawnside)*
* *Envisions 2.0 Teacher’s Guides (Merchantville)*
* *Grab and Go Literature Connection Text*
* *Go Math Student Resource book*
* *Vocabulary Reader*
* *Manipulatives*
* *Grab-and-Go Centers Kit*
* *Go Math Workmats*
* *Digital Resources found at w*[*ww.thinkcentral.co*](http://www.thinkcentral.com)*m*
* *SMARTboard*
* *Themed Trade books*
* *Reteach (in Chapter Resources)*
* *Enrich (in Chapter Resources)*
* *Strategic Intervention Teacher Activity Guide Tier 2 and 3*
* [*https://jr.brainpop.com/*](https://jr.brainpop.com/)
* [*www.Moby*](http://www.moby) *Max.com*
* [*https://quizizz.com/*](https://quizizz.com/)
* [*http://www.iseemaths.com/3-act-tasks/*](http://www.iseemaths.com/3-act-tasks/)
 |
| **Instructional Best Practices and Exemplars** |
| **Unit Vocabulary includes:**zero, one, two, three, four, five, set, match, pair, larger, fewer, more, compare, greater, less, same, number, six, seven, eight, nine |

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| [**Interdisciplinary Connections**](http://www.state.nj.us/education/cccs/) |
| **ELA**RL..K.1. With prompting and support, ask and answer questions about key details in a text (e.g., who, what, where, when, why, how).RI.K.1. With prompting and support, ask and answer questions about key details in a text.RI.K.7. With prompting and support, describe the relationship between illustrations and the text in which they appear (e.g., what person, place, thing, or idea in the text an illustration depicts). | **Social Studies**6.1.4.B.1 Compare and contrast information that can be found on different types of maps and determine how the information may be useful.<https://www.kindergarten-lessons.com/kindergarten_maps/> “Rosie Walks” by: Pat Hutchins6.1.4.C.1 Apply opportunity cost (i.e., choices and tradeoffs) to evaluate individuals’ decisions, including ones made in their communities**.** | **Science**Simple tests can be designed to gather evidence to support or refute student ideas about causes. (K-PS2- 1),(K-PS2-2)With guidance, plan and conduct an investigation in collaboration with peers. (K-PS2-1) |

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| **21st Century Skills/Career Education****CRP1. Act as a responsible and contributing citizen and employee.** **CRP4. Communicate clearly and effectively and with reason.** **CRP6. Demonstrate creativity and innovation.**  | **Technology****8.1.2.A.1 Identify the basic features of a digital device and explain its purpose.****8.1.2.A.4 Demonstrate developmentally appropriate navigation skills in virtual environments.**  |  |

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| **Modifications and Accommodations** |
| **Special Education Students**small group/intentional groupingpreferred seatingdirect instructionprovide background knowledgeprovide individual/small group assistanceprovide student friendly definitions for vocabularymodified assignments (reduce/revise) provide notes/study guidesrestate/rephrasegraphic organizers, labels, word banksvisualschunkingleveled textread text, use audio when availablekinesthetic activitiesextended timebreakscheck-in/check-out system | **English Language Learners**small group/intentional groupingpreferred seatingdirect instructionprovide background knowledgeprovide individual/small group assistanceprovide student friendly definitions for vocabularymodified assignments (reduce/revise) provide notes/study guidesrestate/rephrasegraphic organizers, labels, word banksvisualschunkingleveled textread text, use audio when availablekinesthetic activitiesextended timebreakscheck-in/check-out systemTPR Total Physical Response | **Students at Risk of School Failure**small group/intentional groupingpreferred seatingdirect instructionprovide background knowledgeprovide individual/small group assistanceprovide student friendly definitions for vocabularymodified assignments (reduce/revise) provide notes/study guidesrestate/rephrasegraphic organizers, labels, word banksvisualschunkingleveled textread text, use audio when availablekinesthetic activitiesextended timebreakscheck-in/check-out system |
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| **Unit 3 Kindergarten** |
|  **Content & Practice Standards** | **Critical Knowledge & Skills** |
| * [K.CC.A.1](http://www.corestandards.org/Math/Content/K/CC/A/1/). Count to 100 by ones and by tens. \*(benchmarked)
 | MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. | Concept(s):* Number names and the count sequence up to 70

Students are able to:* count orally by ones up to 70.
* count orally by tens up to 70.

Learning Goal 1: Count to 70 by ones and by tens. |
| * K.MD.A.1. Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.
 | MP.7 Look for and make use of structure. | Concept(s):* Measurable attributes: length, weight, size (volume)
* A single object can have more than one measurable attribute.

Students are able to:* identify measurable attributes.
* describe the measurable attributes of multiple objects.
* describe multiple measurable attributes of a single object.

Learning Goal 2: Describe measurable attributes of multiple objects and describe several measurable attributes of a single object. |
| * K.MD.A.2. Directly compare two objects with a measurable attribute in common, to see which object has “more of” “less of” the attribute, and describe the differences.

*For example, directly compare the heights of two children and describe one child as taller/shorter.*  | MP.6 Attend to precision.MP.7 Look for and make use of structure. | Concept(s):* When comparing objects by measuring, each object must have the same starting point.
* Moving an object does not change its measure.

Students are able to:* directly compare and describe two objects with measurable attribute in common using *more of* or *less of*.

Learning Goal 3*:* Directly compare two objects with a measurable attribute in common*;* use *more of* or *less of* to compare the objects. |
| * K.MD.B.3. Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. \*(benchmarked)
 | MP.2 Reason abstractly and quantitatively. MP.7 Look for and make use of structure. | Concept(s):* Groups can be sorted by the number of objects in each group.

Students are able to:* sort objects into groups.
* sort the group by count.

Learning Goal 4: Count the objects in given categories and sort the categories by count (up to 10 objects). |
| * K.G.A.2. Correctly name shapes regardless of their orientation or overall size.
 | MP.7 Look for and make use of structure. | Concept(s):* Shapes have names.
* Shapes can have the same names but appear different.

Students are able to:* correctly names shapes regardless of their orientation or overall size.

Learning Goal 5: Correctly names shapes regardless of their orientation or overall size. |
| * K.G.A.3. Identify shapes as two-dimensional (lying in a plane, “flat”) or three-dimensional (“solid”)

  | MP.7 Look for and make use of structure. | Concept(s):* Shapes may be *flat* or *solid.*

Students are able to:* identify shapes as two-dimensional (lying in a plane, *flat*) or three-dimensional ( *not flat, solid*).
* compare two- and three- dimensional shapes, in different sizes, and orientations.

Learning Goal 6: Identify shapes as two-dimensional (lying in a plane, *flat*) or three-dimensional ( *not flat, solid*). |
| * K.OA.A.3. Decompose numbers less than or equal to 10 into pairs in more than one way, *e.g. using objects or drawings*, and record each decomposition by a drawing or equation *(e.g. 5 = 3 + 2 and 5 = 4 + 1)*
 | MP.1 Make sense of problems and persevere in solving them.MP.2 Reason abstractly and quantitatively.MP.4 Model with mathematics.MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. | Concept(s):* Part-to-whole relationships
* Some groups of objects can be broken into two smaller groups while the total number remains the same.
* Some groups of objects can be broken into two smaller groups in more than one way.

Students will be able to:* decompose numbers less than or equal to ten into two numbers.
* record the decomposition with a drawing.
* record the decomposition with an equation.
* decompose the same number in more than one way.

Learning Goal 7: Decompose numbers less than or equal to ten into pairs of numbers in more than one way and record with a drawing or equation.  |
| * K.OA.A.4. 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.
 | MP.1 Make sense of problems and persevere in solving them.MP.2 Reason abstractly and quantitatively. MP.4 Model with mathematics.MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. | Concept(s): No new concept(s) introducedStudents are able to:* find a missing part of 10 using objects.
* given a number from 1 to 9, use drawings, or equations to find the number that makes 10.

 Learning Goal 8*:* Given a number less than 10, find the number that makes 10.  |
| * K.NBT.A.1. 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 *(e.g. 18 = 10 + 8);* Understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones. \*(benchmarked)
 | MP.1 Make sense of problems and persevere in solving them.MP.2 Reason abstractly and quantitatively. MP.4 Model with mathematics.MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. | Concept(s): * Numbers from 11 to 19 can be represented as one group of ten *ones* and another group containing fewer than ten *ones.*

Students are able to:* compose and decompose numbers from 11 to 19 into a group of ten *ones* and another group of one(s).
* use the term *ones* to describe the number of objects in each group.
* record each composition or decomposition using objects and drawings.
* record each composition or decomposition by a drawing or equation.

Learning Goal 9*:* Compose and decompose numbers from 11 to 19 into a group of ten and one(s) with or without manipulatives*;* record each composition or decomposition through a drawing or equation. |
| * K.OA.A.5. Demonstrate fluency for addition and subtraction within 5 (by the end of Kindergarten). \*(benchmarked)
 | MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. | Concept(s): No new concept(s) introducedStudents will be able to:* add and subtract within 5 with accuracy and efficiency.

Learning Goal 10:Use mental math strategies to solve addition and subtraction facts within 5.  |

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| **Unit 3 What This May Look Like** |

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| **School/District Formative Assessment Plan** | **School/District Summative Assessment Plan** |
| *Teacher Observation**Exit Slips/ Drawings**Performance Assessments**Anecdotal Records* | * *Mid-Year Benchmark*
* *Chapter Assessments*
 |
| **Focus Mathematical Concepts** |
| **\*Represent, Count and Write 11-19****\*Represent, Count and Write 20 and beyond****\*Identify and Describe Two Dimensional Shapes**Districts should consider listing prerequisites skills. Concepts that include a focus on relationships and representation might be listed as grade level appropriate.Prerequisite skills: Students need to understand the base ten language when representing 1 ten as 10 ones.Common Misconceptions: Students have difficulty with ten as a singular word that means 10 things. For many students, the understanding that a group of 10 things can be replacedby a single object and they both represent 10 is confusing.Number Fluency: Demonstrate fluency for addition and subtraction facts within 5. |
| **District/School Tasks** | **District/School Primary and Supplementary Resources** |
| **Activities include:*** use objects to decompose numbers 11 through 19 into ten ones and some further ones
* represent 11 to 19 objects with number names and written numerals
* solve problems by using the strategy draw a picture
* model and count with objects to show the number 20 and beyond
* represent 20 objects and more with a number name and a written numeral
* count forward to 20 from a given number
* know the count sequence when counting to 50 and to 100 by ones and by tens
* identify, name, describe, and compare two-dimensional shapes including square, circle, triangle, rectangle, and hexagon
* solve problems by using the strategy “draw a picture”
 | * *Go Math Teacher Guides and Planning Editions (Barrington, Haddon Heights, Lawnside)*
* *Envisions 2.0 Teacher Guide (Merchantville)*
* *Grab and Go Literature Connection Text*
* *Go Math Student Resource book*
* *Vocabulary Reader*
* *Manipulatives*
* *Grab-and-Go Centers Kit*
* *Go Math Workmats*
* *Digital Resources found at w*[*ww.thinkcentral.co*](http://www.thinkcentral.com)*m*
* *SMARTboard*
* *Themed Trade books*
* *Reteach (in Chapter Resources)*
* *Enrich (in Chapter Resources)*
* *Strategic Intervention Teacher Activity Guide Tier 2 and 3*
* [*https://jr.brainpop.com/*](https://jr.brainpop.com/)
* [*www.Moby*](http://www.moby) *Max.com*
* [*http://www.iseemaths.com/3-act-tasks/*](http://www.iseemaths.com/3-act-tasks/)
* *https://quizizz.com/*
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| **Instructional Best Practices and Exemplars** |
| **Vocabulary includes:**eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen, eighteen, nineteen, ones tens, twenty, fifty, one hundred, two-dimensional shapes, circle, square, triangle, rectangle, hexagon, alike, different, sides, vertex, corner, vertices |

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| [**Interdisciplinary Connections**](http://www.state.nj.us/education/cccs/) |
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| **21st Century Skills/Career Education****CRP1. Act as a responsible and contributing citizen and employee.** **CRP4. Communicate clearly and effectively and with reason.** **CRP6. Demonstrate creativity and innovation.**  | **Technology****8.1.2.A.1 Identify the basic features of a digital device and explain its purpose.****8.1.2.A.4 Demonstrate developmentally appropriate navigation skills in virtual environments.**  |  |

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| **Modifications and Accommodations** |
| **Special Education Students**small group/intentional groupingpreferred seatingdirect instructionprovide background knowledgeprovide individual/small group assistanceprovide student friendly definitions for vocabularymodified assignments (reduce/revise) provide notes/study guidesrestate/rephrasegraphic organizers, labels, word banksvisualschunkingleveled textread text, use audio when availablekinesthetic activitiesextended timebreakscheck-in/check-out system | **English Language Learners**small group/intentional groupingpreferred seatingdirect instructionprovide background knowledgeprovide individual/small group assistanceprovide student friendly definitions for vocabularymodified assignments (reduce/revise) provide notes/study guidesrestate/rephrasegraphic organizers, labels, word banksvisualschunkingleveled textread text, use audio when availablekinesthetic activitiesextended timebreakscheck-in/check-out systemTPR Total Physical Response | **Students at Risk of School Failure**small group/intentional groupingpreferred seatingdirect instructionprovide background knowledgeprovide individual/small group assistanceprovide student friendly definitions for vocabularymodified assignments (reduce/revise) provide notes/study guidesrestate/rephrasegraphic organizers, labels, word banksvisualschunkingleveled textread text, use audio when availablekinesthetic activitiesextended timebreakscheck-in/check-out system |
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| **Unit 4 Grade K** |
|  **Content & Practice Standards** | **Critical Knowledge & Skills** |
| * [K.CC.A.1](http://www.corestandards.org/Math/Content/K/CC/A/1/). Count to 100 by ones and by tens. \*(benchmarked)
 | MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. | Concept(s):* Number names and the count sequence up to 100

Students are able to:* count orally by ones up to 100.
* count orally by tens up to 100.

Learning Goal 1: Count to 100 by ones and by tens. |
| * K.OA.A.5. Demonstrate fluency for addition and subtraction within 5 (by the end of Kindergarten). \*(benchmarked)
 | MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. | Concept(s): No new concept(s) introducedStudents are able to:* add and subtract within 5 with accuracy and efficiency.

Learning Goal 2:Fluently add and subtract within 5. |
| * K.G.B.4. 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).*

  | MP.7 Look for and make use of structure. | Concept(s):* Orientation does not alter attributes or size.
* Shapes may have sides of unequal or equal length.
* Shapes may or may not have the same number of sides or ‘corners’.

Students are able to:* compare two- and three- dimensional shapes in different sizes and in different orientations and identify similarities and differences.
* compare parts of two- and three-dimensional shapes [e.g. number of sides, number of vertices (*corners*)].
* compare attributes of two- and three-dimensional shapes [e.g. sides have equal length.]
* use informal language to describe similarities, differences, parts, and other attributes when comparing two-and three-dimensional shapes, in different sizes and orientations.

Learning Goal 3: Use informal language to describe similarities, differences, parts number of sides, number of *corners*), and other attributes (having sides of equal length) when comparing two- and three- dimensional shapes, in different sizes and orientations.  |
| * [K.G.B.5](http://www.corestandards.org/Math/Content/K/G/B/5/). Model shapes in the world by building shapes from components *(e.g., sticks and clay balls)* and drawing shapes.
 | MP.1 Make sense of problems and persevere in solving them.MP.4 Model with mathematics.MP.7 Look for and make use of structure. | Concept(s):* Basic shapes exist in real world objects.

Students are able to:* recognize basic shapes in the real world.
* use objects (clay, sticks, etc) to model shapes.
* model shapes in the world by drawing shapes.

Learning Goal 4:Model shapes in the world by building and drawing shapes. |
| * K.G.B.6. Compose simple shapes to form larger shapes.

*For example: “Can you join these two triangles with full sides touching to make a rectangle?”* | MP.1 Make sense of problems and persevere in solving them.MP.4 Model with mathematics.MP.7 Look for and make use of structure. | Concept(s):* Shapes can be combined to make larger shapes.

Students are able to:* compose simple shapes to form larger shapes.

Learning Goal 5*:* Compose simple shapes to form larger shapes. |
| * K.NBT.A.1. 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 *(e.g. 18 = 10 + 8*); understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones. \*(benchmarked)
 | MP.1 Make sense of problems and persevere in solving them.MP.2 Reason abstractly and quantitatively. MP.4 Model with mathematics.MP.7 Look for and make use of structure.MP.8 Look for and express regularity in repeated reasoning. | Concept(s): * Numbers from 11 to 19 can be represented as one group of ten *ones* and another group containing fewer than ten *ones.*

Students are able to:* compose and decompose numbers from 11 to 19 into a group of ten *ones* and another group of one(s).
* use the term *ones* to describe the number of objects in each group.
* record each composition or decomposition using objects and drawings.
* record each composition or decomposition by a drawing or equation.

Learning Goal 6*:* Compose and decompose numbers from 11 to 19 into a group of ten and one(s) with or without manipulatives. Record each composition or decomposition through a drawing or equation. |

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| **Unit 4 Kindergarten What This May Look Like** |

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| **School/District Formative Assessment Plan** | **School/District Summative Assessment Plan** |
| *Teacher Observation**Exit Slips/ Drawings**Performance Assessments**Anecdotal Records* | * *End of year Benchmark*
* *Chapter Assessments*
 |
| **Focus Mathematical Concepts** |
| **\*Identify and Describe 3 Dimensional Shapes****\*Measurement****\*Classify and Sort Data****Districts should consider listing prerequisites skills. Concepts that include a focus on relationships and representation might be listed as grade level appropriate.****Prerequisite skills: Prerequisite skills: Students must know the difference between a two dimensional shape and a three dimensional shape. Students should have spatial sense by****connecting geometric shapes to students’ everyday lives.****Common Misconceptions: K.G.1 Students many times use incorrect terminology when describing shapes. For example, students may say a cube is a square or that a sphere is a****circle.****Number Fluency: Demonstrate fluency for addition and subtraction facts within 5.** |
| **District/School Tasks** | **District/School Primary and Supplementary Resources** |
| **Activities include:*** identify, name, describe, and compare two-dimensional shapes including cube, cone, cylinder, and sphere
* analyze, compare, create, and compose shapes
* solve problems by using the strategy “use logical reasoning”
* compare the length, height, and weight of two objects
* describe several measurable attributes of a single object
* solve problems by using the strategy “draw a picture”
* classify objects by color, shape, and size and count the number of objects in each category
* make and read a graph to count objects that have been classified into categories
* solve problems by using the strategy “use logical reasoning”
 | * *Go Math Teacher Guides and Planning Editions (Barrington, Haddon Height, Lawnside)*
* *Envisions 2.0Teacher Guides (Merchantville)*
* *Grab and Go Literature Connection Text*
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* *Reteach (in Chapter Resources)*
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* [*https://jr.brainpop.com/*](https://jr.brainpop.com/)
* [*www.Moby*](http://www.moby) *Max.com*
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| **Instructional Best Practices and Exemplars** |
| **Vocabulary includes:**above, behind, below, beside, next to, in front of, cone, cube, sphere, cylinder, curved surface,flat surface, curve, roll, stack, slide, solid, three-dimensional shapes, under, heavier, lighter, longer, shorter, taller, same height, same weight, same length color, red, blue, green, yellow, classify, category, shape, size, small, big, graph.  |

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| **Unit Duration: Instructional Days** |
| How long will the unit take to complete? 42 days |