

Mathematics – Kindergarten

	OVERVIEW
FIRST NINE WEEKS	In module 1, students will participate in counting experiences that integrate the four parts of the number core: number sequence, cardinality, one-to-one correspondence, and written number symbols. Students connect sorting a group into parts and decomposing numbers.
	ASSESSMENTS
ASSESSMENT WINDOW	ASSESSMENT NAME
September 6- October 4	Aims Web Beginning of the Year

*Please see the assessment description at the bottom of this document.

UNIT	UNIT	PARENT/FAMILY	NORTH CAROLINA
	DURATION	RESOURCES	STANDARDS
Module 1 Counting and Cardinality	33 lessons	Mod. 1 Family Math K	 NC.K.CC.1 - Know number names and recognize patterns in the counting sequence by: Counting to 100 by ones. Counting to 100 by tens NC.K.CC.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. NC.K.CC.4 - Understand the relationship between numbers and quantities. When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object (one-to-one correspondence). Recognize that the last number named tells the number of objects counted regardless of their arrangement (cardinality). State the number of objects in a group of up to 5 objects, without counting the objects (perceptual subitizing). NC.K.CC.5 - Count to answer "How many?" in the following situations: Given a number from 1–20, count out that many objects. Given up to 20 objects, name the next successive number when an object is added, recognizing the quantity is one more/greater. Given 10 objects in a scattered arrangement, identify how many.



NC.K.MD.3 Classify objects into given categories; count the numbers of objects in each category and sort the categories by count.		categories; count the numbers of objects in each category and sort the categories by
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			OVERVIEW
	ND NINE EKS	In module 2, students will analyze and describe two- and three- dimensional shapes by considering their attributes. This allows students to identify shapes in the world and create their own examples through building and drawing. In module 3, students wi describe and compare measurable attributes. Using direct comparison, students will compare the length and weight of objects. They will develop a toolbox of strategies to compare sets and numbers within 10.	
UNIT	UNIT	PARENT/FAMILY	NORTH CAROLINA
	DURATION	RESOURCES	STANDARDS
Module 2 Two- and Three- Dimensional Shapes	16 lessons	Mod 2 Family Math K	 NC.K.CC.1 - Know number names and recognize patterns in the counting sequence by: Counting to 100 by ones. Counting to 100 by tens NC.K.CC.2 - Count forward beginning from a given number within the known sequence, instead of having to begin at 1. NC.K.CC.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. NC.K.CC.4 - Understand the relationship between numbers and quantities. When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object (one-to-one correspondence). Recognize that the last number named tells the number of objects counted regardless of their arrangement (cardinality).



			• State the number of objects in a group of
			up to 5 objects, without counting the objects
			(perceptual subitizing).
			NC.K.CC.5 - Count to answer "How many?" in
			the following situations:
			• Given a number from 1–20, count out that
			many objects.
			 Given up to 20 objects, name the next
			successive number when an object is added,
			recognizing the quantity is
			one more/greater.
			 Given 20 objects arranged in a line, a
			rectangular array, and a circle, identify how
			many.
			 Given 10 objects in a scattered
			arrangement, identify how many.
			NC.K.G.1 - Describe objects in the
			environment using names of shapes, and
			describe the relative positions of objects using
			positional terms.
			NC.K.G.2 - Correctly name squares, circles,
			triangles, rectangles, hexagons, cubes, cones,
			cylinders, and spheres regardless of their
			orientations or overall size.
			NC.K.G.3 - Identify squares, circles, triangles,
			rectangles, hexagons, cubes, cones, cylinders,
			and spheres as two-dimensional or three-
			dimensional
			NC.K.G.4 - Analyze and compare two- and
			three-dimensional shapes, in different sizes
			and orientations, using informal language to
			describe their similarities, differences,
			attributes and other properties.
			NC.K.G.5 - Model shapes in the world by:
			Building and drawing triangles, rectangles,
			squares, hexagons, circles.
			Building cubes, cones, spheres, and
			cylinders.
Module 3	22 lessons	Mod 3 Family Math K	NC.K.CC.1 - Know number names and
Comparison			recognize patterns in the counting sequence
			by:
			Counting to 100 by ones.
			Counting to 100 by tens
			NC.K.CC.2 Count forward beginning from a
			given number within the known sequence,
			instead of having to begin at 1.
			NC.K.CC.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.
Strategic Pl			Revised 6/27/2022



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NC.K.CC.4 - Understand the relationship	
between numbers and quantities.	
When counting objects, say the number	er
names in the standard order, pairing each	
object with one and only one number nam	
and each number name with one and onl	
one object (one-to-one correspondence).	
Recognize that the last number named	
tells the number of objects counted regard	
of their arrangement (cardinality).	1033
State the number of objects in a group	of
up to 5 objects, without counting the object	
	-13
(perceptual subitizing).	
NC.K.CC.5 - Count to answer "How many?	" in
the following situations:	
• Given a number from 1–20, count out the	nat
many objects.	
Given up to 20 objects, name the next	1
successive number when an object is adde	ea,
recognizing the quantity is one	
more/greater.	
Given 20 objects arranged in a line, a	
rectangular array, and a circle, identify ho	W
many.	
Given 10 objects in a scattered	
arrangement, identify how many.	
NC.K.CC.6 - Identify whether the number	ot
objects, within 10, in one group is greater	
than, less than, or equal to the number of	
objects in another group, by using matchir	ıg
and counting strategies.	
NC.K.CC.7 - Compare two numbers, within	ר 10,
presented as written numerals.	
NC.K.MD.1 - Describe measurable attribute	es of
objects; and describe several different	
measurable attributes of a single object.	
NC.K.MD.2 - Directly compare two objects	
with a measurable attribute in common, to	
see which object has "more of"/"less of" th	ıe
attribute, and describe the difference.	
NC.K.MD.3 - Classify objects into given	
categories; count the numbers of objects i	
each category and sort the categories by	
count	



			OVERVIEW
	NE WEEKS		will explore part-total relationships as
	NE VVEERS		decompose shapes and numbers in
			They will represent the quantities and
			oblems with objects, fingers, drawings,
			In Module 5, students will develop a
			iding of addition and subtraction. They
			ns with number sentences and model
			oblems in various ways.
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UNIT	UNIT	PARENT/FAMILY	NORTH CAROLINA
	DURATION	RESOURCES	STANDARDS
Module 4	18 lessons	Mod 4 Family Math K	NC.K.CC.1 - Know number names and
Composition			recognize patterns in the counting sequence by:
and Decomposition			Counting to 100 by ones.
Decemposition			Counting to 100 by tens
			NC.K.CC.2 Count forward beginning from a
			given number within the known sequence,
			instead of having to begin at 1. NC.K.CC.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.
			NC.K.CC.4 - Understand the relationship
			between numbers and quantities.When counting objects, say the number
			names in the standard order, pairing each
			object with one and only one number name
			and each number name with one and only
			one object (one-to-one correspondence).Recognize that the last number named
			tells the number of objects counted
			regardless of their
			arrangement (cardinality).State the number of objects in a group of
			• State the number of objects in a group of up to 5 objects, without counting the objects
			(perceptual subitizing).
			NC.K.CC.5 - Count to answer "How many?"
			in the following situations:
			 Given a number from 1–20, count out that many objects.
			that many objects.



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			• Given up to 20 objects, name the next
			successive number when an object is
			added, recognizing the quantity is one
			more/greater.
			 Given 20 objects arranged in a line, a
			rectangular array, and a circle, identify how
			many.
			• Given 10 objects in a scattered
			arrangement, identify how many.
			NC.K.OA.1- Represent addition and
			subtraction, within 10:
			• Use a variety of representations such as
			objects, fingers, mental images, drawings,
			sounds, acting out situations, verbal
			explanations, or expressions.
			 Demonstrate understanding of addition
			and subtraction by making connections
			among representations.
			NC.K.OA.2 - Solve addition and subtraction
			word problems, within 10, using objects or
			drawings to represent the problem, when
			solving:
			Add to/Take From-Result Unknown
			Put Together/ Take Apart (Total Unknown
			and Two Addends Unknown)
			NC.K.OA.3 - Decompose numbers less than
			or equal to 10 into pairs in more than one
			way using objects or drawings, and record
			each decomposition by a drawing or
			expression.
			NC.K.G.6 - Compose larger shapes from
			simple shapes
Module 5	27 lessons	Mod 5 Family Math K	NC.K.CC.1 - Know number names and
Addition and	27 10000110		recognize patterns in the counting sequence
Subtraction			by:
300110011011			Counting to 100 by ones.
			• Counting to 100 by tens
			NC.K.CC.2 Count forward beginning from a
			given number within the known sequence,
			instead of having to begin at 1.
			NC.K.CC.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.
			NC.K.CC.4 - Understand the relationship
			between numbers and quantities.
			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
Strategic Play			Revised 6/27/2022



	one object (one-to-one correspondence).
	Recognize that the last number named
	tells the number of objects counted
	regardless of their arrangement
	(cardinality).
	 State the number of objects in a group of
	up to 5 objects, without counting the objects
	(perceptual subitizing).
	NC.K.CC.5 - Count to answer "How many?"
	in the following situations:
	• Given a number from 1–20, count out
	that many objects.
	 Given up to 20 objects, name the next
	successive number when an object is
	added, recognizing the quantity is one
	more/greater.
	Given 20 objects arranged in a line, a
	rectangular array, and a circle, identify how
	many.
	 Given 10 objects in a scattered
	arrangement, identify how many.
	NC.K.OA.1- Represent addition and
	subtraction, within 10:
	• Use a variety of representations such as
	objects, fingers, mental images, drawings,
	sounds, acting out situations, verbal
	÷
	explanations, or expressions.
	 Demonstrate understanding of addition
	and subtraction by making connections
	among representations.
	NC.K.OA.2 - Solve addition and subtraction
	word problems, within 10, using objects or
	drawings to represent the problem, when
	solving:
	Add to/Take From-Result Unknown
	Put Together/ Take Apart (Total Unknown
	and Two Addends Unknown)
	NC.K.OA.3 - Decompose numbers less than
	or equal to 10 into pairs in more than one
	way using objects or drawings, and record
	each decomposition by a drawing or
	expression.
	NC.K.OA.4 - For any number from 0 to 10,
	find the number that makes 10 when added
	to the given number using objects or
	drawings, and record the answer with a
	drawing or expression.
	NC.K.OA.5 - Demonstrate fluency with
	addition and subtraction within 5.



NC.K.OA.6 - Recognize and combine groups with totals up to 5 (conceptual
subitizing).
NC.K.G.6 - Compose larger shapes from
simple shapes

FOURTH NINE WEEKS In module 6, students will compose and decompose numbers 11 to 20 as 10 ones and some more ones in various contexts. As they count to 100 by tens and ones, students will explore patterns in the number sequence. This prepares them for continued work with the base ten number system. ASSESSMENT WINDOW ASSESSMENT NAME April 28- May 25 aimsWeb+ End of the Year UNIT UNIT PARENT/FAMILY RESOURCES NORTH CAROLINA STANDARDS Module 6 Place Value Foundations 24 lessons Mod. 6 family Math K NCK.CC.1 - Know number names and recognize patterns in the counting sequence by: Counting to 100 by ones. Counting to 100 by tens CCC.2 - Withe numbers from 0 to 20. Represent a number of objects with a written numeral 0-20, with 0 representing a count of no objects. When counting to lead order, paining each object with one and only one number name and each number name with one and only one objects. Rc.K.CC.2 - Wite number name and each number name with one and only one object shout name with one and only one object that the last number name and each number of objects counted regardless of their arrangement (cardinality). State the number of objects und and only one object that the last number name and each number of objects under do only one object to answer "How many?" in 				OVERVIEW
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Continued work with the base ten number system. ASSESSMENT NAME April 28- May 25 Continued work with the base ten number system. Module 6 PARENT/FAMILY NORTH CAROLINA Body and the system PARENT/FAMILY NORTH CAROLINA Module 6 Place Value Part Sources Standards Foundations 24 lessons Mod. 6 Family Math K NC.K.CC.1 - Know number names and recognize patterns in the counting sequence by: • Counting to 100 by ones. • Counting to 100 by ones. • Counting to 100 by tens NC.K.CC.2 - Count forward beginning from a given number within the known sequence, instead of having to begin at 1. NC.K.CC.3 - Write numbers from 0 to 20. Represent a number of objects. NC.K.CC.4 - Understand the relationship between number and quantities. • When counting objects, say the number name and each number name doipict (one-to-one correspondence). • Recognize that the last number name and expanded the idationality). • State the number of objects is a group of up to 5 objects, without counting the objects (percentual subitizing). NC.K.CC.1 - Count for answer "How many?" in	WE	EKS		
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*Family Math Resources

The Family Math Resources provide information by topic about what students are learning, examples of the concepts, and At-Home activities to align with classroom learning

*aimsWeb+

aimswebPlus is a universal screening assessment given to all students three times a year. Universal screeners are quick, standardized assessments that measure academic skills for reading and math. These measures help schools inform instruction, identify students at risk, and help teachers determine why the student may be at risk.