

Warren County Schools Standards Matrix is aligned with the *North Carolina Collaborative for mathematics Learning (NC*<sup>2</sup>*ML) Instructional Frameworks*. The clusters and sequencing are crafted to foster student understanding over time of the connections among mathematical ideas and procedures. Standards and skills are addressed through multiple clusters with increase depth of knowledge. Please note that strikethroughs represent parts of standards that are addressed in a different cluster. The mastery of all grade level standards is an expectation by the end of the academic school year. Teachers will have to continue to keep skills sharp throughout each grading period.

Benchmark 1: Schoolnet

Benchmark 2: Schoolnet

Benchmark 3: Schoolnet

(Standards are highlighted to indicate the Benchmark that it will be assessed on)

Note: Be careful not to overlook standards that will be assessment in a particular benchmark window

Instructional	North Carolina Standard	Recommended
Framework		Duration and
Cluster		Resources
4 D. U.I.	First Six Weeks	2 . 2 . 2 . 2 . 1
1.Build	Describe and compare measurable attributes.	2 to 3 Weeks
Mathematical Community	NC.K.MD.1 Describe measurable attributes of objects; and describe several different	
through	measurable attributes of a single object.	Instructional
Exploring	NC.K.MD.2 Directly compare two objects with a measurable attribute in common, to see	Framework
Attributes	which object has "more of"/"less of" the attribute [without counting], and describe the difference.	Resource
	Classify objects and count the number of objects in each category.	Cluster 1
	NC.K.MD.3 Classify objects into given categories; count the numbers of objects in each	Tools4teachers
	category and sort the categories by count.	(Lessons/Tasks)
	Identify and describe shapes.	
	NC.K.G.1 Describe objects in the environment using names of shapes, and describe the	
	relative positions of objects using positional terms.	
2.Understanding	Know number names and the counting sequence.	3 Weeks
the Relationship	<b>NC.K.CC.1</b> Know number names and recognize patterns in the counting sequence by:	
between	• Counting to 100 by ones. Rote sequence to 20 at this time.	<u>Instructional</u>
Numbers and	<ul> <li>Counting to 100 by tens.</li> </ul>	<u>Framework</u>
Quantities	NO V GGA G	Resource
	NC.K.CC.2 Count forward beginning from a given number within the known sequence,	
	instead of having to begin at 1.	Cluster 2
	NC.K.CC.3 Write numbers from 0 to 20 (0-5 and then 6-10). Represent a number of	Tools4teachers
	objects with a written numeral $\frac{0 \text{ to } 20}{0.5 \text{ and then } 6-10}$ , with 0 representing a count of no	(Lessons/Tasks
	objects.	
	Count to tell the number of 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    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).	
	<b>NC.K.CC.5</b> Count to answer "How many?" in the following situations:	
	• Given a number from 1 20 (1-10), count out that many objects.	
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<ul> <li>Given up to 20 10 objects, name the next successive number when an object is added, recognizing the quantity is one more/greater.</li> <li>Given 20 10 objects arranged in a line, a rectangular array, and a circle, identify how many.</li> <li>Given 10 5 objects in a scattered arrangement, identify how many.</li> </ul>	
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Instructional	North Carolina Standard	Recommended
Framework		Duration and
Cluster		Resources
2 Understanding	Second Six Weeks  Describe and compare measurable attributes.	2 Weeks
2.Understanding the Relationship	NC.K.MD.1 Describe measurable attributes of objects; and describe several different	2 weeks
between	measurable attributes of a single object.	Instructional
Numbers and		Framework
Quantities	Classify objects and count the number of objects in each category.	Resource
(continued)	<b>NC.K.MD.3</b> Classify objects into given categories; count the numbers of objects in each	
	category and sort the categories by count.	Cluster 2
	Identify and describe shapes	Tools4teachers
	Identify and describe shapes.  NC.K.G.3 Identify squares, circles, triangles, rectangles, hexagons, cubes, cones,	(Lessons/Tasks
	cylinders, and spheres as two-dimensional or three-dimensional.	`
	eyimaers, and spheres as two dimensional of three dimensional.	
3.Comparing	Know number names and the counting sequence.	3 Weeks
Quantities with	<b>NC.K.CC.1</b> Know number names and recognize patterns in the counting sequence by:	
Counting and	• Counting to 100-50 by ones.	<u>Instructional</u>
Spatial Relationships	• Counting to 100 50 by tens.	Framework Resource
Ketationships	NC.K.CC.3 Write numbers from 0 to 20. Represent a number of objects with a written	<u>Resource</u>
	numeral 0 to 20, with 0 representing a count of no objects.	
	and the second s	Cluster 3
	Count to tell the number of objects.	Tools4teachers
	<u>NC.K.CC.4</u> Understand the relationship between numbers and quantities.	(Lessons/Tasks
	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 V CC 5 Count to answer "How many?" in the following situations:	
	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.	
	Compare numbers.	
	NC.K.CC.6 Identify whether the number of objects, within 10, in one group is greater	
	than, less than, or equal to the number of objects in another group, by using matching and	
	counting strategies.	
	Describe and compare measurable attributes.	
	NC.K.MD.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 difference.	
	Identify and describe shapes.	
	<u>NC.K.G.1</u> Describe objects in the environment using names of shapes, and describe the	
	relative positions of objects using positional terms.	



Instructional	North Carolina Standard	Recommended
Framework	Tiorur Garonna Standard	Duration and
Cluster		Resources
4.7.7. 440.4	Third Six Weeks	0 · 4 XX 1
4.Identifying,	Know number names and the counting sequence.	3 to 4 Weeks
Describing, Classifying and	NC.K.CC.3 Write numbers from 0 to 20. Represent a number of objects with a written	Instructional
Composing and	numeral 0 to 20, with 0 representing a count of no objects.	Framework
Shapes	Count to tell the number of objects.	Resource
~ <b>F</b>	<b>NC.K.CC.5</b> 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,	<u>Cluster 4</u>
	recognizing the quantity is one more/greater.	Tools4teachers
	• Given 20 objects arranged in a line, a rectangular array, and a circle, identify how	(Lessons/Tasks
	many.	
	• Given 10 objects in a scattered arrangement, identify how many.	
	Compare numbers.	
	<b>NC.K.CC.6</b> Identify whether the number of objects, within 10, in one group is greater	
	than, less than, or equal to the number of objects in another group, by using matching and	
	counting strategies.	
	Identify and describe shapes.	
	<b>NC.K.G.1</b> Describe objects in the environment using names of shapes, and describe the	
	relative positions of objects using positional terms.	
	<b>NC.K.G.2</b> Correctly name squares, circles, triangles, rectangles, hexagons, cubes, cones,	
	cylinders, and spheres regardless of their orientations or overall size.	
	NC V C 2 Identify annual circles triangles are translated by the same and the same and the same are translated by the same and the same are translated by th	
	<b>NC.K.G.3</b> Identify squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres as two-dimensional or three-dimensional.	
	eyinders, and spheres as two dimensional of three dimensional.	
	Analyze, compare, create and compose shapes.	
	<b>NC.K.G.4</b> 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.	
	<b>NC.K.G.5</b> Model shapes in the world by:	
	Building and drawing triangles, rectangles, squares, hexagons, circles.	
	<ul> <li>Building cubes, cones, spheres, and cylinders.</li> </ul>	
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	<b>NC.K.G.6</b> Compose larger shapes from simple shapes.	
	Describe and compare measurable attributes.	
	<b>NC.K.MD.1</b> Describe measurable attributes of objects; and describe several different	
	measurable attributes of a single object.	
	Classify objects and count the number of objects in each category.	
	<b>NC.K.MD.3</b> Classify objects into given categories; count the numbers of objects in each	
	category and sort the categories by count.	
5.Number	Know number names and the counting sequence.	2 Weeks
Relationships	<b>NC.K.CC.1</b> Know number names and recognize patterns in the counting sequence by:	
Between and	• Counting to 100 by ones.	Instructional
Among 1-10	• Counting to 100 by tens.	<u>Framework</u>
		Resource



**NC.K.CC.2** Count forward beginning from a given number within the known sequence, instead of having to begin at 1.

### Count to tell the number of objects.

**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
- Given 10 objects in a scattered arrangement, identify how many.

Cluster 5 Tools4teachers (Lessons/Tasks

#### Benchmark 1



Instructional Framework Cluster	North Carolina Standard	Recommended Duration and Resources
	Fourth Six Weeks	
5.Number	Compare numbers.	4 Weeks
Relationships Between and Among 1-10 (continued)	<b>NC.K.CC.6</b> Identify whether the number of objects, within 10, in one group is greater than, less than, or equal to the number of objects in another group, by using matching and counting strategies.	Instructional Framework Resource
	<b>NC.K.CC.7</b> Compare two numbers, within 10, presented as written numerals.	
	<ul> <li>Understand addition and subtraction.</li> <li>NC.K.OA.1 Represent addition and subtraction, within 10:</li> <li>Use a variety of representations such as objects, fingers, mental images, drawings, sounds, acting out situations, verbal explanations, or expressions.</li> <li>Demonstrate understanding of addition and subtraction by making connections among representations</li> </ul>	Cluster 5 Tools4teachers (Lessons/Tasks
	<b>NC.K.OA.3</b> 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.	
	<b>NC.K.OA.4</b> 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.	
	<ul> <li>NC.K.OA.6 Recognize and combine groups with totals up to 5 (conceptual subitizing).properties of operations, and explaining the reasoning used, add, within 100, in the following situations:</li> <li>A two-digit number and a one-digit number</li> <li>A two-digit number and a multiple of 10</li> </ul>	
6.Exploring Parts and Wholes with Joining and Separating	Compare numbers.  NC.K.CC.6 Identify whether the number of objects, within 10, in one group is greater than, less than, or equal to the number of objects in another group, by using matching and counting strategies.  Understand addition and subtraction.	2 Weeks  Instructional Framework Resource
	<ul> <li>NC.K.OA.1 Represent addition and subtraction, within 10:</li> <li>Use a variety of representations such as objects, fingers, mental images, drawings, sounds, acting out situations, verbal explanations, or expressions.</li> <li>Demonstrate understanding of addition and subtraction by making connections among representations</li> </ul>	Cluster 6 Tools4teachers (Lessons/Tasks



Instructional Framework Cluster	North Carolina Standard	Recommended Duration and Resources
	Fifth Six Weeks	
6.Exploring Parts and Wholes with Joining and Separating (continued)	<ul> <li>NC.K.OA.2 Solve addition and subtraction word problems, within 10, using objects or drawings to represent the problem, when solving:         <ul> <li>Add to/Take From-Result Unknown</li> <li>Put Together/ Take Apart (Total Unknown and Two Addends Unknown)</li> </ul> </li> <li>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.</li> <li>NC.K.OA.4 For any number from 0 to 10, find the number that makes 10 when added to</li> </ul>	4 Weeks  Instructional Framework Resource  Cluster 6 Tools4teachers
	the given number using objects or drawings, and record the answer with a drawing or expression.  NC.K.OA.6 Recognize and combine groups with totals up to 5 (conceptual subitizing).  Build foundation for place value.  NC.K.NBT.1 Compose and decompose numbers from 11 to 19 into ten ones and some further ones by:  Using objects or drawings.  Recording each composition or decomposition by a drawing or expression.  Understanding that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones.	(Lessons/Tasks
7.Foundations of Place Value - Exploring Numbers 11-20	<ul> <li>Build foundation for place value.</li> <li>NC.K.NBT.1 Compose and decompose numbers from 11 to 19 into ten ones and some further ones by: <ul> <li>Using objects or drawings.</li> <li>Recording each composition or decomposition by a drawing or expression.</li> <li>Understanding that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones.</li> </ul> </li> <li>Understand addition and subtraction. <ul> <li>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.</li> </ul> </li> <li>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.</li> <li>NC.K.OA.5 Demonstrate fluency with addition and subtraction within 5.</li> </ul>	2 Weeks  Instructional Framework Resource  Cluster 7 Tools4teachers (Lessons/Tasks



Instructional Framework Cluster	North Carolina Standard Sixth Six Weeks	Recommended Duration and Resources
7.Foundations of Place Value - Exploring Numbers 11-20 (continued)	Understand addition and subtraction.  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.	3 Weeks  Instructional Framework Resource  Cluster 7 Tools4teachers (Lessons/Tasks
Review All Clusters	Review all standards	3 Weeks
Benchmark 2 End of Year		