

Unit 1: Math Is		D	istrict Formative Unit Assessment:
	Suggested Mg	nipulativos	NONE
Shape Cards	Suggested Ma Pattern Blog		
	T diletti bio		
Circle te			
	Instructional Ski	ls Sequence	
	Optior		
Students complete Diagnos	tic Assessment for Redbird. (T	nis assessment will creat	e their individual learning paths)
Students complete the Math	h Attitude Survey		
Readiness Diagnostic How R	Ready Am /? (for Unit 2)		
 Diagnose students' str 		prerequisite concepts o	and skills for the upcoming unit.
•		prerequisite concepts c	and skills for the upcoming unit.
Oliagnose students' str Unit 1: Fluency Practice Lesson 1-1: Math is Mine		prerequisite concepts o	and skills for the upcoming unit.
Unit 1: Fluency Practice Lesson 1-1: Math is Mine		· · ·	Resources:
Unit 1: Fluency Practice Lesson 1-1: Math is Mine	rengths and weaknesses with	Proficiency Scale: ■ NONE Proficiency Scale:	Resources: McGraw Hill Reveal
Unit 1: Fluency Practice Lesson 1-1: Math is Mine Lesson 1-2: Math is Exploring and Thinking	rengths and weaknesses with	Proficiency Scale: NONE Proficiency Scale: NONE 	Resources:
Unit 1: Fluency Practice Lesson 1-1: Math is Mine Lesson 1-2: Math is Exploring and Thinking	rengths and weaknesses with	Proficiency Scale: NONE Proficiency Scale: NONE Proficiency Scale:	Resources: McGraw Hill Reveal • Lesson 1-1 to 1-6
Unit 1: Fluency Practice Lesson 1-1: Math is Mine Lesson 1-2: Math is Exploring and Thinking Lesson 1-3: Math is in my World	rengths and weaknesses with	Proficiency Scale: • NONE Proficiency Scale: • NONE Proficiency Scale: • NONE	Resources: McGraw Hill Reveal • Lesson 1-1 to 1-6 Formative Assessment:
Unit 1: Fluency Practice Lesson 1-1: Math is Mine Lesson 1-2: Math is Exploring and Thinking Lesson 1-3: Math is in my World	rengths and weaknesses with	Proficiency Scale: • NONE Proficiency Scale: • NONE Proficiency Scale: • NONE Proficiency Scale: • NONE Proficiency Scale:	Resources: McGraw Hill Reveal • Lesson 1-1 to 1-6
Unit 1: Fluency Practice Lesson 1-1: Math is Mine Lesson 1-2: Math is Exploring and Thinking Lesson 1-3: Math is in my World Lesson 1-4: Math is Explaining and Shar	rengths and weaknesses with	Proficiency Scale: • NONE Proficiency Scale: • NONE Proficiency Scale: • NONE	Resources: McGraw Hill Reveal • Lesson 1-1 to 1-6 Formative Assessment:
Unit 1: Fluency Practice Lesson 1-1: Math is Mine Lesson 1-2: Math is Exploring and Thinking Lesson 1-3: Math is in my World Lesson 1-4: Math is Explaining and Shar	rengths and weaknesses with	Proficiency Scale: • NONE Proficiency Scale: • NONE Proficiency Scale: • NONE Proficiency Scale: • NONE Proficiency Scale: • NONE	Resources: McGraw Hill Reveal • Lesson 1-1 to 1-6 Formative Assessment:



Unit 2: Numbers to 5

District Formative Unit Assessment: Unit 2 Assessment A (online)

	Unit 2 Assessment A (Online)			
Scope and Sequence of the Benchmark				
MA.K.NSO.1				
De	Develop an understanding for counting using objects in a set.			
	Instructional Alignment for Benchmark(s) of Fo	ocus		
Early Learning Developmental	Kindergarten	First Grade		
Standards				
 Subitizes (immediately recognizes without counting) up to five objects. Counts and identifies the number sequence "1 to 31" 3. Demonstrates one-to-one correspondence when counting objects placed in a row (one to 15 and beyond) Identifies the last number spoken tells "how many" up to 10 (cardinality) Constructs and counts sets of objects (one to 10 and beyond) Uses counting and matching strategies to find which is more, less than, or equal to 10. Reads and writes some numerals one to 10 using appropriate activities. 	 MAK.NSO.1.1 Given a group of up to 20 objects, count the number of objects in that group and represent the number of objects in a rearrangement of that group without recounting. 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. MAK.NSO.1.2 Given a number from 0 to 20, count out that many objects. Clarification 1: Instruction includes giving a number verbally or with a written numeral. MAK.NSO.1.3 Identify positions of objects within a sequence using the words "first," "second," "third," "fourth" or "fifth." 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. MAK.NSO.1.4 Compare the number of objects from 0 to 20 in two groups using the terms less than, equal to or greater than. Clarification 2: Within this benchmark, the expectation is not to use the relational symbols =, > or <. 	In First Grade, students will interact with patterns found in counting. (MA.2.NSO.1.1) In First Grade, students will understand that the value of a digit is impacted by its position in a number. A three in the tens place has a value of 30 while a 3 in the ones place has a value of 3. (MA.2.NSO.1.2) In First Grade, students will identify ways that numbers can be written flexibly using decomposition. (MA.2.NSO.1.3) In First Grade, students will understand that the value of a digit is impacted by its position in a number. A three in the tens place has a value of 30 while a 3 in the ones place has a value of 3. (MA.2.NSO.1.4)		



MA.K.NSO.1.1

The purpose of this benchmark is to help students develop an understanding of cardinality: the principle that the last number when counted in a set represents the total number within the set, and that the number of objects in a set remains the same regardless of the arrangement of the set. Additionally, this benchmark allows students to begin recognizing and writing numerals.

- Instruction includes the use of manipulatives, pictorial representations and real-world contexts to provide a purpose for counting. (MTR.2.1, MTR.7.1)
- Instruction includes symbolic representation of numbers 0 20. (MTR.7.1)

MA.K.NSO.1.2

The purpose of this benchmark is to help students further develop the concept that counting gives the number of objects in a set and to reinforce the counting sequence. Students should count out a given number of objects, and if the counted set is rearranged or moved, students should restate the number of objects without counting.

- Instruction includes the use of manipulatives and pictorial representations.
- Instruction may use ten-frames or similar organizers to help students organize their counting. (MTR.5.1)
- Instruction includes context to provide a purpose for counting. (MTR.7.1)

MA.K.NSO.1.3

The purpose of this benchmark is to develop students' vocabulary for describing the position of objects in a set (i.e., ordinality). This benchmark reinforces further development of cardinality – even though objects in a set may switch positions, the total numbers of objects in the set remain the same.

- For mastery of this benchmark, instruction does not need to include students writing the positional word names.
- Instruction includes specificity of sequence relative to the starting position and direction (first from the left, etc.)
- Instruction may include sets larger than five as students identify the positions first through fifth. (Many students may be comfortable with using the words sixth through twentieth.)
- Instruction includes the use of manipulatives and pictorial representations.

MA.K.NSO.1.4

The purpose of this benchmark is to develop student understanding of comparing numbers and values relative to others. This benchmark may be used to connect to the counting sequence, forwards and backwards, and to addition and subtraction as strategies to compare numbers.

- Instructions encourage students to explain "how they know" a number is greater than, less than or equal to. (MTR.6.1)
 - For example, a student could explain that 5 is after 3 so 5 is greater than 3. A student could also pair objects one-to-one to determine that 5 is greater than 3.
- Instruction allows for students to compare sets and demonstrate their thinking using various strategies, such as addition and subtraction, counting on or back, and manipulatives. (MTR.2.1)
 - For example, 7 is greater than 5 because 5 + 2 = 7 and because it is like starting at 5 and counting "5, 6, 7."
- Instruction includes pairing objects in two sets one-to-one, students may observe that a set has more objects when there are no more to pair with. (MTR.5.1)
- Instruction includes the language "which is greater," "which is less," and "are they equal," to help students develop vocabulary.
- Instruction includes comparing sets of objects as well as numbers.

Key Vocabulary (may	Common Misconceptions:
not be comprehensive)	MA.K.NSO.1.1
items in bold can be	 Students may inaccurately report the number of objects in a set that has been rearranged even though the number was
found in the K-5	accurately counted before the set was rearranged (i.e., conservation of cardinality).
	• Students may recount the number of objects in a set that has been rearranged even though the number was accurately
Glossary	counted before the set was rearranged.
	• Students may recount a group of objects when asked "how many," rather than reporting the last number counted.
Cardinality Principle	Students may not be systematic in their counting. o For example, a student may double count or skip numbers.
Natural Number zero	MA.K.NSO.1.2
one two three four	 Students may skip or repeat numbers when counting out objects. o
five one more first	• For example, a student may say "14, 15, 17."
	Students may lose track of which objects have been counted.
second third fourth	MA.K.NSO.1.3
fifth equal equal group	• Students may not be able to connect the positional terms (first, second, etc.) to the object's position after rearrangement.

matching fewer greater than less than more	 dolphin as "third" regardless of sequence. Students may give similar objects the same order num MA.K.NSO.1.4 Students may confuse the size of objects with the num 	ber especially if they are next to ea ber of objects when comparing.	
	Suggested Manip	oulatives	
			Dot Cards
		•	
201			
E SAC			
		6	7 8 9 10
	Instructional Skills	Sequence	
	<u>Optional:</u> Readiness Diagnos	-	
<u> </u>	students' strengths and weaknesses with prere-	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Lesson 2-1 Skill:	Success Criteria:	Proficiency Scale:	Resources:
Count 1,2, and 3	 I can count objects to 3 I can explain how to count objects to 3 	 Counting & Comparing Objects (MA.K.NSO.1) 	McGraw Hill Reveal
			 Lesson 2-1 to 2-10
Lesson 2-2 Skill:	Success Criteria:	Proficiency Scale:	
Represent 1,2,and 3	 I can show numbers 1,2, and 3. 	 Counting & Comparing 	Formative Assessment:
	I can explain how to show numbers 1,2 and 3.	Objects (MA.K.NSO.1)	 Work Together (during a lesson)
Lesson 2-3 Skill: Count 4 and 5	 Success Criteria: I can count objects to 5. 	Proficiency Scale:Counting & Comparing	 Exit Ticket (at the end of a
	 I can explain how to count objects to 5. 	Objects (MA.K.NSO.1)	
			 Math probe (during a unit)
Lesson 2-4 Skill:	Success Criteria:	Proficiency Scale:	
Represent 4 and 5	 I can shoe numbers 4 and 5. I can explain how to show numbers 4 and 5. 	 Counting & Comparing Objects (MAAK NSO 1) 	Additional Resources:
	 I can explain how to show numbers 4 and 5. 	Objects (MA.K.NSO.1)	See Grade1 BIG-M document for
Lesson 2-5 Skill:	Success Criteria:	Proficiency Scale:	an instructional task(s) and item(s).
Represent 0	 I can identify 0. 	 Counting & Comparing 	
	 I can explain how to identify 0. 	Objects (MA.K.NSO.1)	
Lesson 2-6 Skill:	Success Criteria:	Proficiency Scale:	4
Numbers to 5	 I can identify the number that is one more. 	 Counting & Comparing 	
	,		

Lesson 2-7 Skill: Ordinal Numbers	 Success Criteria: I can identify position using ordinal numbers. I can explain how to identify the positions of objects using the words "first," "second," "third," "fourth," or "fifth." 	 Proficiency Scale: Counting & Comparing Objects (MA.K.NSO.1) 	CHARLOTTE
Lesson 2-8 Skill: Equal Groups to 5	 Success Criteria: I can tell if groups are equal by matching the objects in the group. 	 Proficiency Scale: Counting & Comparing Objects (MA.K.NSO.1) 	
Lesson 2-9 Skill: Greater Than and Less Than	 Success Criteria: I can use matching to determine if the numbers of objects in one group is greater than or less than the number of objects in another group. I can explain how to use matching to determine if the number of objects in one group is greater than or less than the number of objects in one determine if another group. 	 Proficiency Scale: Counting & Comparing Objects (MA.K.NSO.1) 	NOTES:
Lesson 2-10 Skill: Compare Number to 5	 Success Criteria: I can use counting to determine if the number of objects in one group is greater than, less than, or equal to the number of objects in another group. I can explain how to use counting to determine if the number of objects in one group is greater than, less than, or equal to the number of objects in another group. 	 Proficiency Scale: Counting & Comparing Objects (MA.K.NSO.1) 	
	Math Probe: Who Has More Stickers?	1	1



U	nit 3: Numbers to	o 10	District Formative Unit Assessment:
			Unit 3 Assessment A (online)
		Scope and Sequence of the Benchmark	
		MA.K.NSO.1	
		Develop an understanding for counting using objects in	a set.
		MA.K.NSO.2	
	Recite num	ber names sequentially within 100 and develop an understar	nding for place value
		(also covered in unit 10)	
		Instructional Alignment for Benchmark(s) of Focus	
	Early Learning	Kindergarten	First Grade
	Developmental		
	Standards	MA.K.NSO.1.1 Given a group of up to 20 objects, count the number of objects in that group	la First Crassle, students will integrat with
1)	Subitizes (immediately	and represent the number of objects with a written numeral. State the	In First Grade, students will interact with patterns found in counting.
	recognizes without counting)	number of objects in a rearrangement of that group without recounting.	(MA.2.NSO.1.1)
21	up to five objects. Counts and identifies the	 Clarification 1: Instruction focuses on developing an understanding of apreliation of the second seco	
2)	number sequence "1 to 31"	 cardinality and one-to-one correspondence. Clarification 2: Instruction includes counting objects and pictures 	
3)	3. Demonstrates one-to-one	presented in a line, rectangular array, circle or scattered arrangement.	
-	correspondence when	Objects presented in a scattered arrangement are limited to 10.	
	counting objects placed in a	 Clarification 3: Within this benchmark, the expectation is not to write the number in word form. 	In First Grade, students will understand that
	row (one to 15 and beyond)	MA.K.NSO.1.2	the value of a digit is impacted by its position
4)	Identifies the last number	Given a number from 0 to 20, count out that many objects.	in a number. A three in the tens place has a
	spoken tells "how many" up	 Clarification 1: Instruction includes giving a number verbally or with a written numeral. 	value of 30 while a 3 in the ones place has a
5)	to 10 (cardinality) Constructs and counts sets of	MA.K.NSO.1.4	value of 3. (MA.2.NSO.1.2)
5)	objects (one to 10 and	Compare the number of objects from 0 to 20 in two groups using the terms	(
	beyond)	less than, equal to or greater than.	
6)	Uses counting and matching	 Clarification 1: Instruction focuses on matching, counting and the connection to addition and subtraction. 	In First Grade, students will understand that
	strategies to find which is	 Clarification 2: Within this benchmark, the expectation is not to use the 	the value of a digit is impacted by its position
	more, less than, or equal to	relational symbols =, $>$ or $<$.	in a number. A three in the tens place has a
	10.	MA.K.NSO.2.3 Locate, order and compare numbers from 0 to 20 using the number line and	value of 30 while a 3 in the ones place has a
7)	Reads and writes some	terms less than, equal to or greater than.	value of 3. (MA.2.NSO.1.4)
	numerals one to 10 using	Clarification 1: Within this benchmark, the expectation is not to use the relational	(
	appropriate activities.	 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.	



MA.K.NSO.1.1

The purpose of this benchmark is to help students develop an understanding of cardinality: the principle that the last number when counted in a set represents the total number within the set, and that the number of objects in a set remains the same regardless of the arrangement of the set. Additionally, this benchmark allows students to begin recognizing and writing numerals.

- Instruction includes the use of manipulatives, pictorial representations and real-world contexts to provide a purpose for counting.
- Instruction includes symbolic representation of numbers 0 20. (MTR.7.1)

MA.K.NSO.1.2

The purpose of this benchmark is to help students further develop the concept that counting gives the number of objects in a set and to reinforce the counting sequence. Students should count out a given number of objects, and if the counted set is rearranged or moved, students should restate the number of objects without counting.

- Instruction includes the use of manipulatives and pictorial representations
- Instruction may use ten-frames or similar organizers to help students organize their counting. (MTR.5.1)
- Instruction includes context to provide a purpose for counting. (MTR.7.1)

MA.K.NSO.1.4

The purpose of this benchmark is to develop student understanding of comparing numbers and values relative to others. This benchmark may be used to connect to the counting sequence, forwards and backwards, and to addition and subtraction as strategies to compare numbers.

- Instructions encourage students to explain "how they know" a number is greater than, less than or equal to. (MTR.6.1)
 - For example, a student could explain that 5 is after 3 so 5 is greater than 3. A student could also pair objects one-to-one to determine that 5 is greater than 3.
- Instruction allows for students to compare sets and demonstrate their thinking using various strategies, such as addition and subtraction, counting on or back, and manipulatives. (MTR.2.1)
 - For example, 7 is greater than 5 because 5 + 2 = 7 and because it is like starting at 5 and counting "5, 6, 7."
- Instruction includes pairing objects in two sets one-to-one, students may observe that a set has more objects when there are no more to pair with. (MTR.5.1)
- Instruction includes the language "which is greater," "which is less," and "are they equal," to help students develop vocabulary.
- Instruction includes comparing sets of objects as well as numbers.

MA.K.NSO.2.3

The purpose of this benchmark is to build on knowledge from comparing in MA.K.NSO.1.4 and to introduce the number line. This benchmark will deepen student understanding of the relationship between numbers, as well as provide the foundation for the number line as a strategy for operations later on.

- Instruction includes varied orientations and ranges of the number line.
 - For example, given number lines can be horizontal, vertical, starting at 0, starting at another number, include blanks or an open number line. (MTR.5.1)
- Instruction includes making a connection to measurement when comparing numbers on a number line, which will help prepare students for using rulers in later grades

Key Vocabulary (may	Common Misconceptions:
not be	MA.K.NSO.1.1
comprehensive) items	 Students may inaccurately report the number of objects in a set that has been rearranged even though the number was
in bold can be found	accurately counted before the set was rearranged (i.e., conservation of cardinality).
in the K-5 Glossary	• Students may recount the number of objects in a set that has been rearranged even though the number was accurately counted
automaticity	before the set was rearranged.
expressions	 Students may recount a group of objects when asked "how many," rather than reporting the last number counted.
•	 Students may not be systematic in their counting. o
equations	 For example, a student may double count or skip numbers.
six(6)	MA.K.NSO.1.2
seven(7)	 Students may skip or repeat numbers when counting out objects. o
eight(8)	 For example, a student may say "14, 15, 17."
nine(9)	 Students may lose track of which objects have been counted.
ten(10)	 Students may give similar objects the same order number especially if they are next to each other in the sequence.

	 MA.K.NSO.1.4 Students may confuse the size of objects with the MA.K.NSO.2.3 Students may assume that all number lines start at When looking at number lines with hash marks, stumarks 	0 or 1. Idents may number the spaces be	
	Suggested M	anipulatives	
			Dot Cards
			• • • • • • • • • • • • • • • • • • • •
6.97			
			6 7 8 9 10
	Instructional Sk		
ς.	Optional: Readiness Diag	-	
	students' strengths and weaknesses with pr		
Lesson 3-1 Skill: Count 6 and 7	 Success Criteria: I can count objects to 7 	Proficiency Scale:Counting & Comparing	Resources:
	 I can explain how to count objects to 7 	Objects (MA.K.NSO.1)	McGraw Hill Reveal Lesson 3-1 to 3-12
Lesson 3-2 Skill:	Success Criteria:	Proficiency Scale:	
Represent 6 and 7	 I can show numbers 6 and 7 I can explain how to show numbers 6 and 7 	 Counting & Comparing Objects (MA.K.NSO.1) 	Formative Assessment: Work Together (during a lesson) Exit Ticket (at the end of a lesso
Lesson 3-3 Skill:	Success Criteria:	Proficiency Scale:	 Math probe (during a unit)
Count 8 and 9	 I can count objects to 9 	Counting & Comparing	
	 I can explain how to count objects to 9 	Objects (MA.K.NSO.1)	Additional Resources:
Lesson 3-4 Skill:	Success Criteria:	Proficiency Scale:	See Grade1 BIG-M document for an
Represent 8 and 9	 I can show numbers 8 and 9 	 Counting & Comparing 	instructional task(s) and item(s).
	 I can explain how to show numbers 8 and 9 	Objects (MA.K.NSO.1)	
Lesson 3-5 Skill:	Success Criteria:	Proficiency Scale:	1
Count 10	 I can count objects to 10 	 Counting & Comparing 	
	 I can explain how to count objects to 10 	Objects (MA.K.NSO.1)	
Lesson 3-6 Skill:	Success Criteria:	Proficiency Scale:	4
Represent 10	 I can show the number 10 	 Counting & Comparing 	
	 I can explain how to show the number 10 	Objects (MA.K.NSO.1)	

Lesson 3-7 Skill: Numbers to 10	 Success Criteria: I can identify the number that is one more I can explain how to identify the number that is one more 	 Proficiency Scale: Counting & Comparing Objects (MA.K.NSO.1) 	CHARLOTTE COUNTY Public School
Lesson 3-8 Skill: Compare objects in groups	 Success Criteria: I can use matching and counting to determine if the number of objects in one group is greater than or less than the number of objects in another group I can explain how to compare the number of objects in two groups by matching or counting the objects in each group 	 Proficiency Scale: Counting & Comparing Objects (MA.K.NSO.1) 	
Lesson 3-9 Skill: Compare Numbers	 Success Criteria: I can compare two numbers by counting I can explain how to compare two numbers by counting 	 Proficiency Scale: Recite & Represent Number Sequence (MA.K.NSO.2) 	NOTES:
	Math Probe: Who Has More Stickers?		
Lesson 3-10 Skill: Write Numbers to 3	 Success Criteria: I can write numbers to show how many I can explain how to write numbers to show how many 	 Proficiency Scale: Counting & Comparing Objects (MA.K.NSO.1) 	
Lesson 3-11 Skill: Write Numbers to 6	 Success Criteria: I can write numbers to show how many I can explain how to write numbers to show how many 	 Proficiency Scale: Counting & Comparing Objects (MA.K.NSO.1) 	
Lesson 3-12 Skill: Write Numbers to 10	 Success Criteria: I can write numbers to show how many I can explain how to write numbers to show how many 	 Proficiency Scale: Counting & Comparing Objects (MA.K.NSO.1) 	



Unit 4: Sort, Count, and	d Compare Objects	District Formative Unit Assessment: Unit 4 Assessment A (online)		
	Scope and Sequence of the Benchmar MA.K.DP.1			
Develop	an understanding for collecting, representing ar	nd comparing data		
· · · · ·	Instructional Alignment for Benchmark(s) of			
Early Learning Developmental Standards	Kindergarten	First Grade		
Represents, analyzes and discusses data (e.g., charts, graphs and tallies)	 MA.K.DP.1 Develop an understanding for collecting, representing and comparing data. 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. 	In First Grade, students will begin thinking about how they can organize information in a way that can be interpreted. (MA.2.DP.1.1) In First Grade, students will begin to understand different displays of data and the information that they can represent. (MA.2.DP.1.2)		
 The purpose of this benchmark is to de counting skills. (MTR.5.1) Instruction reinforces the counting of the	 Instruction reinforces the counting and comparing benchmarks within the Number Sense and Operations strand. (MTR.5.1) 			
Key Vocabulary not be comprehensive) items in bold can be found in the K-5 Glossary Common Misconceptions: MA.K.DP.1.1 • Students may not clearly define categories for sorting objects which may lead to inaccurate data collection as objects fit into multiple categories. • When students are presented with objects to be sorted into predefined categories, they may be frustrated that				
sort shape size objects don't fit into any category. Suggested Manipulatives				
Shapes	Buttons			

	Instructional S	kills Sequence	
Diagnose stu	<u>Optional:</u> Readiness Diag Idents' strengths and weaknesses with p		
Lesson 4-1 Skill: Sort Objects into Groups	 Success Criteria: I can recognize different attributes and sort objects into groups I can explain how I sorted each group 	 Proficiency Scale: Collect, Represent & Compare Data (MA.K.DP.1) 	Resources: McGraw Hill Reveal • Lesson 4-1 to 4-4
Lesson 4-2 Skill: Count Objects in Groups	 Success Criteria: I can sort and count objects I can explain how to count sorted groups of objects 	 Proficiency Scale: Collect, Represent & Compare Data (MA.K.DP.1) 	Formative Assessment: Work Together (during a lesson) Exit Ticket (at the end of a lesson) Math probe (during a unit)
Lesson 4-3 Skill: Describe Groups of Objects	 Success Criteria: I can describe sorted groups by attribute I can describe sorted groups by the number of objects in each group 	 Proficiency Scale: Collect, Represent & Compare Data (MA.K.DP.1) 	Additional Resources: See Grade1 BIG-M document for an instructional task(s) and item(s).
	Math Probe: Sort by Count		
Lesson 4-4 Skill: Compare Groups of Objects	 Success Criteria: I can compare sorted groups based on attributes and the number of objects in each group. I can explain how to compare sorted groups based on attributes and the number of objects. 	 Proficiency Scale: Collect, Represent & Compare Data (MA.K.DP.1) 	



Unit 5: 2-Dimensional Shapes		District Formative Unit Assessment: Unit 5 Assessment A (online)
Scope and Sequence of the Benchmark		
MA.K.GR.1 Identify, compare and compose two- and three-dimensional figures		
	Instructional Alignment for Benchmark(s) of	
Early Learning Developmental Standards	Kindergarten	First Grade
 Recognizes and names two- dimensional shapes (circle, square, triangle, and rectangle) of different sizes and orientation. Describe, sort, and classifies two- and three-dimensional shapes using some attributes such as size, sides, and other properties (e.g., vertices) Creates two-dimensional shapes using other shapes (e.g., putting two squares together to make a rectangle) Constructs with three-dimensional shapes in the environment through play (e.g., building castles in the construction area) 	 MA.K.GR.1.1 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 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. MA.K.GR.1.2 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. Example: A triangle can be compared to a rectangle by stating that they both have straight sides, but a triangle has 3 sides and vertices, and a rectangle has 4 sides and vertices. 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 	In First Grade, students will recognize figures by their defining attributes as this will help them sort figures based on attributes rather than orientation, color, or size. (MA.2.GR.1.1)

MA.K.GR.1.1

The purpose of this benchmark is to help students identify specific two- and three-dimensional figures and to make connections between the figures. (MTR.2.1, MTR.5.1)



- It is not the expectation of this benchmark to make distinctions between two- and three-dimensional figures.
- Instruction focuses on using a variety of figures including different orientations, such as scalene, isosceles and equilateral triangles, to build the understanding of triangles. (There is no expectation that students learn these terms, but it is important they recognize various types of triangles.) (MTR.2.1)
- Instruction for rectangles and squares includes their similarities and differences, and the relationship that all squares are rectangles, but not all rectangles are squares. (MTR.5.1)
- Instruction may use manipulatives and other concrete objects to develop student understanding.

MA.K.GR.1.2

The purpose of this benchmark is for students to build on their understanding of classification of two-dimensional figures by finding similarities and differences between shapes. (MTR.5.1)

- Instruction includes opportunities for students to sort images based on various criteria, such as same number of sides, and figures with all straight sides. (MTR.2.1, MTR.5.1)
- Instruction includes helping students describe objects based on relative positions. Relative position refers to students identifying left/right, in front of/behind, apart and above/below. When comparing figures students should understand that relative position can change even though the other features of the figures stay the same
- Instruction includes figures of various sizes and orientations, and may include figures that are not triangles, circles, rectangles or squares. (MTR.2.1)
- Instruction includes examples of squares when discussing rectangles.
- Right angles are technically not addressed until grade 4, but it is appropriate to discuss "square corners" and corners that are not square in an informal way in Kindergarten.

Key Vocabulary (may not be comprehensive) items in bold can be found in the K-5 Glossary	Common Misconceptions: MA.K.GR.1.1	
Circles Cones Cubes Cylinders Rectangles Spheres Squares Triangles Side vertex/vertices corner square above behind below beside in front of next to	 Students may only recognize figures in a specific orientation or angle distribution (i.e., recognizing isosceles triangles but not scalene) Students may not recognize that a square is also a rectangle. Students may sort objects by size when asked to sort by shape. For example, students may place large circles with large triangles, or separate large triangles and small triangles. MA.K.GR.1.2 Students may not understand that all squares are also classified as rectangles; however, only specific rectangles (with sides that are the same length) are also classified as squares 	
	Suggested Manipulatives	

	Instructional SI	kills Sequence	
	<u>Optional:</u> Readiness Diag	nostic How Ready Am I	2
Diagnose stu	dents' strengths and weaknesses with p	rerequisite concepts and	d skills for the upcoming unit.
Lesson 5-1 Skill:	Success Criteria:	Proficiency Scale:	Resources:
Triangles	I can identify and name a triangleI can describe a triangle	 Identify & Compare 2-D and 3-D Shapes (MA.K.GR.1) 	McGraw Hill Reveal Lesson 5-1 to 5-5
	Math Probe: Triangles		
Lesson 5-2 Skill: Rectangles	 Success Criteria: I can identify and name a rectangle I can describe a rectangle 	 Proficiency Scale: Identify & Compare 2-D and 3-D Shapes (MA.K.GR.1) 	Formative Assessment: • Work Together (during a lesson) • Exit Ticket (at the end of a lesson) • Math probe (during a unit) Additional Resources: See Grade K BIG-M document for an instructional task(s) and item(s).
Lesson 5-3 Skill: Squares	 Success Criteria: I can identify and name a square I can describe a square 	 Proficiency Scale: Identify & Compare 2-D and 3-D Shapes (MA.K.GR.1) 	
Lesson 5-4 Skill: Circles	 Success Criteria: I can identify and name a circle I can describe a circle 	Proficiency Scale: Identify & Compare 2-D and 3-D Shapes (MA.K.GR.1)	
Lesson 5-5 Skill: Position of 2-Dimensional Shapes	 Success Criteria: I can identify and name a flat shape I can describe the relative position of flat shapes 	 Proficiency Scale: Identify & Compare 2-D and 3-D Shapes (MA.K.GR.1) 	



Unit 6: Understanding Addition		District Formative Unit Assessment:		
	Unit 6 Assessment A (online)			
	Scope and Sequence of the Benchmark MA.K.NSO.1			
Represent and so	MA.K.NSO.T Develop an understanding for counting using objects in a set. MA.K.AR.1 Represent and solve addition problems with sums between 0 and 10 and subtraction problems using related facts.			
	Instructional Alignment for Benchmark(s) of Focu			
Early Learning	Kindergarten	First Grade		
 Developmental Standards Uses counting and matching strategies to find which is more, less than, or equal to 10. Explores quantities up to eight using objects, fingers, and dramatic play to solve real-world joining and separating problems. 	 MAK.NSO.3.1 Explore addition of two whole numbers from 0 to 10, and related subtraction facts. 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). 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. MAK.AR.1.3 Solve addition and subtraction real-world problems using objects, drawings or equations to represent the problem. 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). MAK.AR.2.1 Explain why addition or subtraction equations are true using objects or drawings. <i>Example</i>: The equation 7 = 9 - 2 can be represented with cupcakes to show that it is true by crossing out two of the nine cupcakes. Clarification 1: Instruction focuses on the understanding of the equal sign. Clarification 3: Addition and subtraction are limited to sums within vo 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. 	In First Grade, students will continue through exploration and reliability towards efficiency and eventually automaticity. (MA.1.NSO.2.1) In First Grade, students will recognize the relationship between addition and subtraction and to use the relationship as a possible strategy (i.e., if 12 + 3 is 15, then 15 – 3 is 12.) (MA.1.NSO.2.2) In First Grade, students will start to apply their understanding of mathematical concepts as they critically apply their knowledge in visualizing and deciphering word problems. (MA.1.AR.1.2) In First Grade, students will get thinking about the relationships between addition and subtraction. (MA.1.AR.2.1)		

CHARLOTTE COUNTY Public Schools

Instructional Strategies:

MA.K.NSO.3.1

The purpose of this benchmark is to begin building strategies for addition and subtraction using skills developed through previous benchmarks; such as counting forwards and backwards, counting objects and using number lines. Procedural reliability with these same addition and subtraction facts is expected in MA.K.NSO.3.2, and automaticity is to be achieved in grade 1 (MA.1.NSO.2.1).

- Instruction encourages students to use and explore various strategies as they begin to discover which strategies are best for them and best for given situations. (MTR.5.1, MTR.2.1) o Strategies include the use of manipulatives; the use of fingers, counting both sets separately and combining or removing, counting on and counting back, and using the relationship between addition and subtraction.
- Instruction includes the use of manipulatives and pictorial representations. Instruction includes multiple representations of expressions and equations. (MTR.2.1)
 For example, 3 + 7 = _____ and ____ = 3 + 7
- Instruction includes examples of all four situations for addition and subtraction as described in Appendix A.
- Instruction includes the use of context to provide a purpose for adding or subtracting, and to develop conceptual understanding for addition and subtraction. (MTR.7.1)

MA.K.AR.1.3

The purpose of this benchmark is to allow students to continue to flexibly discover various sums as they work towards procedural reliability in Kindergarten, and automaticity in grade 1. This benchmark allows students the opportunity to deepen understanding of addition and subtraction by connecting the concepts to real-world situations. Though this should not be the first exposure to contextual addition and subtraction problems, this benchmark provides the opportunity for making it explicit. (MTR.7.1)

- Instruction includes the relationship between addition and subtraction, providing opportunities for discovering subtraction facts that are related to addition facts. (MTR.5.1)
- Instruction includes opportunities for the use of various strategies and for students to collaborate and share strategies with each other. (MTR.2.1, MTR.4.1)
- Items or explanations including equations as strategies may help students begin to understand the meaning of the equal sign.

MA.K.AR.2.1

The purpose of this benchmark is to provide explicit opportunities for students to deepen understanding by justifying their solutions and explaining strategies they have chosen, as well as developing an understanding of the equal sign. (MTR.6.1, MTR.4.1)

- Instruction may present equations in different forms, such as a + b = c or c = a + b (MTR.2.1)
- Instruction focuses on understanding and supporting, not only identifying whether or not an equation is true.
- Instruction helps students understand that the equal sign does not mean to compute, but relates quantities to one another.
- Instruction includes the use of context to provide a purpose for adding or subtracting, and to support and scaffold student drawings. (MTR.7.1)

Key Vocabulary (may not be comprehensive)	Common Misconceptions:			
items in bold can be found in the K-5 Glossary	MA.K.NSO.3.1			
Equation Expression Number Line Equal Sign add in all join sum (total)	 Students may confuse addition situations with subtraction situations based on "cue" or "key" words. For example, in the word problem "Steve has 7 crayons. Steve has 3 more crayons than Joane. How many crayons does Joane have?" the word "more" may make students think to add, though the context is actually subtraction. Students may think there is only one correct way of solving a problem. Many problems can be solved by using addition or subtraction. After mastering one addition or subtraction situation students may feel that there are no others to learn. MA.K.AR.1.3 Students may develop the assumption that the minuend must always be larger. Though students will not explore negative numbers until grade 6, students should not be taught a rule that will expire. Students may not yet have an understanding of the equal sign when attempting to use equations as a strategy (see MA.K.AR.2.1). MA.K.AR.2.1 Students may think that "equals" just means to compute, and may not recognize equations and expressions represented in non-standard ways, such as with pictures or manipulatives. 			

	Suggested M	lanipulatives	
			1 2 3 4 5 6 7 8 9 10
	Instructional SI	kills Sequence	
	<u>Optional:</u> Readiness Diag	nostic How Ready Am I?	
Diagnose s	tudents' strengths and weaknesses with p	rerequisite concepts and sk	ills for the upcoming unit.
Lesson 6-1 Skill: Represent and Solve Add to Problems	 Success Criteria: I can show add to problems. I can explain how to show add to problems. 	Proficiency Scale:Understand Addition and	Resources: McGraw Hill Reveal Lesson 6-1 to 6-6
Lesson 6-2 Skill: Represent and Solve More Add To Problems	 Success Criteria: I can show add to problems with objects and equations. I can explain how to show add to problems with objects and equations. 	 Proficiency Scale: Understand Addition and Subtraction to 10 (MA.K.AR.1) 	 Formative Assessment: Work Together (during a lesson) Exit Ticket (at the end of a lesson) Math probe (during a unit) Additional Resources:
Lesson 6-3 Skill: Represent and Solve Put Together Problems	 Success Criteria: I can show putting together two parts to find the total. I can explain how to put together two parts to find the total. 	 Proficiency Scale: Understand Addition and Subtraction to 10 (MA.K.AR.1) 	
Lesson 6-4 Skill: Represent and Solve Addition Problems	 Success Criteria: I can solve addition word problems using objects or drawings. I can explain how to use objects or drawings to solve addition word problems. 	 Proficiency Scale: Understand Addition and Subtraction to 10 (MA.K.AR.1) 	See Grade K BIG-M document for an instructional task(s) and item(s).
	Math Probe: Addition Stories		
Lesson 6-5 Skill: Represent and Solve More Addition Problems Lesson 6-6 Skill: Explore the Equal Sign	 Success Criteria: I can represent and solve addition word problems. I can explain how to represent and solve addition word problems. Success Criteria: I can explain the meaning of the equal sign. I can use the equal sign to write an 	 Proficiency Scale: Understand Addition and Subtraction to 10 (MA.K.AR.1) Proficiency Scale: Understand the Equal Sign (MA.K.AR.2) 	



Unit 7: Understanding Subtraction

District Formative Unit Assessment: Unit 7 Assessment A (online)

Scope and Sequence of the Benchmark			
MA.K.NSO.3 Develop an understanding of addition and subtraction operations with one-digit whole numbers. MA.K.AR.1 Represent and solve addition problems with sums between 0 and 10 and subtraction problems using related facts.			
	Instructional Alignment for Benchmark(s) of Focu		
Early Learning Developmental Standards	Kindergarten	First Grade	
 Begin to demonstrate how to compose and decompose (build and take apart) sets up to eight using objects, fingers, and acting out. Explores quantities up to eight using objects, fingers, and dramatic play to solve real-world joining and separating problems. 	 MA.NSO.3.1 Explore addition of two whole numbers from 0-10, and related subtraction facts. 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). 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 MA.K.AR.1.3 Solve addition and subtraction real-world problems using objects, drawings, or equation to represent the problem. Clarification 1: Instruction includes creating a ten using manipulatives, number lines, models and drawings. 	In First Grade, students will continue through exploration and reliability towards efficiency and eventually automaticity. (MA.1.NSO.2.1) In First Grade, students will recognize the relationship between addition and subtraction and to use the relationship as a possible strategy (i.e., if 12 + 3 is 15, then 15 – 3 is 12.) (MA.1.NSO.2.2) In First Grade, students will start to apply their understanding of mathematical concepts as they critically apply their knowledge in visualizing and deciphering word problems. (MA.1.AR.1.2)	

Instructional Strategies:

MA.K.NSO.3.1

The purpose of this benchmark is to begin building strategies for addition and subtraction using skills developed through previous benchmarks; such as counting forwards and backwards, counting objects and using number lines. Procedural reliability with these same addition and subtraction facts is expected in MA.K.NSO.3.2, and automaticity is to be achieved in grade 1 (MA.1.NSO.2.1).

- Instruction encourages students to use and explore various strategies as they begin to discover which strategies are best for them and best for given situations.
 (MTR.5.1, MTR.2.1) o Strategies include the use of manipulatives; the use of fingers, counting both sets separately and combining or removing, counting on and counting back, and using the relationship between addition and subtraction.
- Instruction includes the use of manipulatives and pictorial representations. Instruction includes multiple representations of expressions and equations. (MTR.2.1)
 For example, 3 + 7 = ____ and ____ = 3 + 7
- Instruction includes examples of all four situations for addition and subtraction as described in Appendix A.

Instruction includes the use of context to provide a purpose for adding or subtracting, and to develop conceptual understanding for addition and suppose for adding or subtracting.
 (MTR.7.1)

MA.K.AR.1.3

The purpose of this benchmark is to allow students to continue to flexibly discover various sums as they work towards procedural reliability in Kindergarten, and automaticity in grade 1. This benchmark allows students the opportunity to deepen understanding of addition and subtraction by connecting the concepts to real-world situations. Though this should not be the first exposure to contextual addition and subtraction problems, this benchmark provides the opportunity for making it explicit. (MTR.7.1)

- Instruction includes the relationship between addition and subtraction, providing opportunities for discovering subtraction facts that are related to addition facts. (MTR.5.1)
- Instruction includes opportunities for the use of various strategies and for students to collaborate and share strategies with each other. (MTR.2.1, MTR.4.1)
- Items or explanations including equations as strategies may help students begin to understand the meaning of the equal sign.

MA.K.AR.2.1

The purpose of this benchmark is to provide explicit opportunities for students to deepen understanding by justifying their solutions and explaining strategies they have chosen, as well as developing an understanding of the equal sign. (MTR.6.1, MTR.4.1)

- Instruction may present equations in different forms, such as a + b = c or c = a + b (MTR.2.1)
- Instruction focuses on understanding and supporting, not only identifying whether or not an equation is true.
- Instruction helps students understand that the equal sign does not mean to compute, but relates quantities to one another.
- Instruction includes the use of context to provide a purpose for adding or subtracting, and to support and scaffold student drawings. (MTR.7.1)

Key Vocabulary (may not be comprehensive)	Common Misconceptions:	
items in bold can be found in the K-5 Glossary	MA.K.NSO.3.1	
Equation Expression Number Line Equal Sign difference subtract minus subtraction sign	 Students may confuse addition situations with subtraction situations based on "cue" or "key" words. For example, in the word problem "Steve has 7 crayons. Steve has 3 more crayons than Joane. How many crayons does Joane have?" the word "more" may make students think to add, though the context is actually subtraction. Students may think there is only one correct way of solving a problem. Many problems can be solved by using addition or subtraction. After mastering one addition or subtraction situation students may feel that there are no others to learn. MA.K.AR.1.3 Students may develop the assumption that the minuend must always be larger. Though students will not explore negative numbers until grade 6, students should not be taught a rule that will expire. Students may not yet have an understanding of the equal sign when attempting to use equations as a strategy (see MA.K.AR.2.1). 	
	Suggested Manipulatives	
		1 2 3 4 5 6 7 8 9 10

	Instructional S	kills Sequence	
	Optional: Readiness Diag	gnostic How Ready Am I?	
	students' strengths and weaknesses with p	prerequisite concepts and sk	ills for the upcoming unit.
Lesson 7-1 Skill: Represent Take Apart Problems	 Success Criteria: I can represent take apart problems I can explain how to represent take apart problems 	 Proficiency Scale: Understand Addition and Subtraction to 10 (MA.K.AR.1) Understand Addition and Subtraction to 10 (NSO.3) 	Resources: McGraw Hill Reveal Lesson 7-1 to 7-5 Formative Assessment:
Lesson 7-2 Skill: Represent and Solve Take from Problems	 Success Criteria: I can represent and solve take from problems. I can explain how to represent and solve take from problems. 	 Proficiency Scale: Understand Addition and Subtraction to 10 (MA.K.AR.1) 	 Work Together (during a lesson) Exit Ticket (at the end of a lesson) Math probe (during a unit)
Lesson 7-3 Skill: Represent and Solve More Take from Problems	 Success Criteria: I can represent and solve take from problems I can explain how to represent and solve take from problems 	 Proficiency Scale: Understand Addition and Subtraction to 10 (MA.K.AR.1) Understand Addition and Subtraction to 10 (NSO.3) 	Additional Resources: See Grade K BIG-M document for an instructional task(s) and item(s).
Lesson 7-4 Skill: Represent and Solve Subtraction Problems	 Success Criteria: I can represent and solve subtraction problems I can explain how to represent and solve subtraction problems 	 Proficiency Scale: Understand Addition and Subtraction to 10 (MA.K.AR.1) 	
Lesson 7-5 Skill: Represent and Solve Addition and Subtraction Problems	 Success Criteria: I can represent and solve addition and subtraction problems I can explain how to represent and solve addition and subtraction problems 	 Proficiency Scale: Understand Addition and Subtraction to 10 (MA.K.AR.1) Understand Addition and Subtraction to 10 (NSO.3) 	
Λ	Aath Probe: Representing Addition and Su		



Unit 8: Additio	n and Subtraction Strategies	District Formative Unit Assessment: Unit 8 Assessment A (online)		
	Scope and Sequence of the Bench			
	MA.K.NSO.3 Develop an understanding of addition and subtraction operations with one-digit whole numbers. MA.K.AR.1			
Represe	and solve addition problems with sums between 0 and 10 and su Instructional Alignment for Benchmark(s			
Early Learning	Kindergarten	First Grade		
 Begin to demonstrate to compose and decompose (build a apart) sets up to eight 	 MA.NSO.3.1 Explore addition of two whole numbers from 0-10, and resubtraction facts. Clarification 1: Instruction includes objects, fingers, drawing lines and equations. Clarification 2: Instruction focuses on the connection that of "putting together" or "counting on" and that subtraction is apart" or "taking from." Refer to Situations Involving Operation Numbers (Appendix A). Clarification 3: Within this benchmark, it is the expectation for the connection for the co	elated In First Grade, students will continue through exploration and reliability towards efficiency and eventually automaticity. (MA.1.NSO.2.1) that one		
 objects, fingers, and out. 2) Explores quantities up eight using objects, f and dramatic play to real-world joining and separating problems 	to gers, how the different representations are related to each othe MA.K.NSO.3.2 Add two one-digit whole numbers with sums from 0 to 10 subtract using related facts with procedural reliability.	erIn First Grade, students will recognize the relationship between addition and subtraction and to use the relationship as a possible strategy (i.e., if 12 + 3 is 15, then 15 - 3 is 12.)number nd 5 make(MA.1.NSO.2.2)		
	 MA.K.AR.1.2 Given a number from 0 to 10, find the different ways it correpresented as the sum of two numbers. Clarification 1: Instruction includes the exploration of finding pairs to make a sum using manipulatives, objects, drawings expressions; and understanding how the different representation are related to each other 	g possible s and ten, etc.		



Instructional Strategies: MA.K.NSO.3.1

The purpose of this benchmark is to begin building strategies for addition and subtraction using skills developed through previous benchmarks; such as counting forwards and backwards, counting objects and using number lines. Procedural reliability with these same addition and subtraction facts is expected in MA.K.NSO.3.2, and automaticity is to be achieved in grade 1 (MA.1.NSO.2.1).

- Instruction encourages students to use and explore various strategies as they begin to discover which strategies are best for them and best for given situations. (MTR.5.1, MTR.2.1)
- Strategies include the use of manipulatives; the use of fingers, counting both sets separately and combining or removing, counting on and counting back, and using the relationship between addition and subtraction.
- Instruction includes the use of manipulatives and pictorial representations.
- Instruction includes multiple representations of expressions and equations. (MTR.2.1)
 - \circ For example, 3+7= and =3+7.
- Instruction includes examples of all four situations for addition and subtraction as described in Appendix A.
- Instruction includes the use of context to provide a purpose for adding or subtracting, and to develop conceptual understanding for addition and subtraction. (MTR.7.1)

MA.K.NSO.3.2

The purpose of this benchmark is to build upon the exploration of MA.K.NSO.3.1 and provide students with opportunities to become more efficient in their selection and use of strategies. The goal is not to be fluent with addition and subtraction, but rather to build the foundation for fluency in later grades. (MTR.3.1)

- Instruction includes the use of manipulatives and pictorial representations.
- Instruction allows students to continue exploring various strategies for addition and subtraction, discovering strategies that allow them to become more efficient. (MTR.2.1)
- Instruction includes the use of discussions where students share strategies with one another. (MTR.4.1)
- Though the first expectation for procedural fluency with addition and subtraction is not until Grade 2, instruction allows students to become more efficient through choosing appropriate strategies. (MTR.3.1)
 - For example, students moving from combining then counting sets to counting on.
- Instruction includes the use of the commutative property (not by name) as a strategy for adding. This is connected to the Cardinality Principle

 the total number remains the same after rearrangement. (MTR.5.1)
 - For example, allow students to discover that 7+2=9 and 2+7=9 to help develop the understanding of the commutative property.
- Instruction includes the use of context to provide a purpose for adding or subtracting, and to develop conceptual understanding for addition and subtraction. (MTR.7.1)

MA.K.AR.1.2

The purpose of this benchmark is to explore addition and lay a foundation for fluency in later grades. This benchmark provides the foundation for the strategy of making a 10 that can be used as the scale of addition increases in later grades. (MTR.5.1)

- Instruction allows students to flexibly discover addends that make 10 using strategies and manipulatives. Strategies and manipulatives include addition and subtraction facts, counting with fingers, ten frames, number lines, models and drawings. (MTR.2.1)
- Instruction includes the use of the commutative property (not by name) as a strategy for adding.
 - For example, allow students to discover that 7+3=10 and 3+7=10 to build their understanding and extending it to find new sums. If a student knows 4+6 they now also know 6+4. (MTR.5.1)
- Instruction allows for students to develop verbal explanations as they learn to justify and explain their thinking. (MTR.4.1)
- Instruction includes making a connection to related subtraction facts.
 - \circ For example, saying that the number you add to 3 to find 10 is 7 is the same as 10–3=7.

Key Vocabulary	Common Misconceptions:	
(may not be	MA.K.NSO.3.1	
(may not be comprehensive) items in bold can be found in the K-5 Glossary Equation Expression Number Line count on count back decompose compose false true	 MA.K.NSO.3.1 MA.K.NSO.3.1 Students may confuse addition situations with subtraction situations based on "cue" or "key" words. For example, in the word problem "Steve has 7 crayons. Steve has 3 more crayons than Joane. How many crow does Joane have?" the word "more" may make students think to add, though the context is actually subtraction. Students may think there is only one correct way of solving a problem. Many problems can be solved by using ad or subtraction. After mastering one addition or subtraction situation students may feel that there are no others to learn. MA.K.NSO.3.2 The purpose of this benchmark is to build upon the exploration of MA.K.NSO.3.1 and provide students with opportuniti become more efficient in their selection and use of strategies. The goal is not to be fluent with addition and subtraction rather to build the foundation for fluency in later grades. (MTR.3.1) Instruction includes the use of manipulatives and pictorial representations. 	
	 MA.K.AR.1.2 Students may not connect pairs of addends through the commutative property. Though there is no expectation that students name the commutative property, they should begin to discover the connections and patterns and recognize that if a+b=10, then b+a= 10. Students may not recognize that multiple pairs of addends represent the same sum. Students may not recognize that the two numbers don't have to be different. For example, if the given number is 8 a student may not think to represent it as 4+4. 	
	Suggested Manipulatives	
	Number Ine 0 - 20 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 Image: Second seco	

	Instructional SI	cills Sequence	
	<u>Optional:</u> Readiness Diag	nostic How Ready Am I?	
Diagnose	students' strengths and weaknesses with p	rerequisite concepts and ski	ills for the upcoming unit.
Lesson 8-1 Skill: Add within 10	Success Criteria: I can solve addition equations within 10. I can explain how to solve addition equations within 10.	 Proficiency Scale: Understand Addition and Subtraction to 10 (NSO.3) 	Resources: McGraw Hill Reveal
Lesson 8-2 Skill: Subtraction within 10	 within 10. Success Criteria: I can solve subtraction equations within 10 I can explain how to solve subtraction equations within 10 	 Proficiency Scale: Understand Addition and Subtraction to 10 (NSO.3) 	 Lesson 8-1 to 8-10 Formative Assessment: Work Together (during a lesson) Exit Ticket (at the end of a lesson) Math probe (during a unit) Additional Resources:
Lesson 8-3 Skill: Ways to Decompose Numbers to 5	 Success Criteria: I can decompose numbers to 5 in different ways. I can explain how to decompose numbers to 5 in different ways. 	 Proficiency Scale: Understand Addition and Subtraction to 10 (MA.K.AR.1) 	
Lesson 8-4 Skill: Ways to make 6 and 7	 Success Criteria: I can make 6 and 7 in different ways I can explain how to make 6 and 7 in different ways. 	 Proficiency Scale: Understand Addition and Subtraction to 10 (NSO.3) 	
	Math Probe: Representing Addition and Subtracti	on	See Grade K BIG-M document for an
Lesson 8-5 Skill: Ways to Decompose 6 and 7	 Success Criteria: I can decompose 6 and 7 in different ways. I can explain how to decompose 6 and 7 in different ways. 	 Proficiency Scale: Understand Addition and Subtraction to 10 (MA.K.AR.1) 	instructional task(s) and item(s).
Lesson 8-6 Skill Ways to make 8 and 9	 Success Criteria: I can make 8 and 9 in different ways. I can explain how to make 8 and 9 in different ways. 	 Proficiency Scale: Understand Addition and Subtraction to 10 (NSO.3) 	NOTES
Lesson 8-7 Skill Ways to decompose 8 and 9	 Success Criteria: I can decompose 8 and 9 in different ways. I can explain how to decompose 8 and 9 in different ways. 	 Proficiency Scale: Understand Addition and Subtraction to 10 (MA.K.AR.1) 	
Lesson 8-8 Skill Ways to Make 10	 Success Criteria: I can make 10 in different ways. I can find different number combinations for 10. 	 Proficiency Scale: Understand Addition and Subtraction to 10 (MA.K.AR.1) Understand Addition and Subtraction to 10 (NSO.3) 	
Lesson 8-9 Skill Ways to Decompose 10	 Success Criteria: I can decompose 10 in different ways. I can explain how to decompose 10 in different ways. 	 Proficiency Scale: Understand Addition and Subtraction to 10 (MA.K.AR.1) 	
Lesson 8-10 Skill True Equations	 Success Criteria: I can determine if an addition or subtraction equation is true or false. I can explain what makes an addition or subtraction equation true or false. 	 Proficiency Scale: Understand the Equal Sign (MA.K.AR.2) 	





Unit 9: Numbers 11	to 15	District Formative Unit Assessment: Unit 9 Assessment A (online)		
	Scope and Sequence of the Benchmark			
	MA.K.NSO.1			
	Develop an understanding for counting using objects in a s			
	Instructional Alignment for Benchmark(s) of Focu	JS		
Early Learning Developmental Standards	Kindergarten	First Grade		
 Subitizes (immediately recognizes without counting) up to five objects Counts and identifies the number sequence "1 to 31" Demonstrates one-to-one correspondence when counting objects placed in a row (one to 15 and beyond) Identifies the last number spoken tells "how many" up to 10 (agridinglity) 	 MA.NSO.1.1 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. 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. 	In First Grade, students will interact with patterns found in counting. (MA.1.NSO.1.1) In First Grade, students will understand that the value of a digit is impacted by its position in a number. A three in the tens place has a value of 30 while a 3 in the ones place has a value of 3. (MA.1.NSO.1.2)		
 to 10 (cardinality) 5) Constructs and counts sets of objects (one to 10 and beyond) 	Clarification 1: Instruction includes giving a number verbally or with a written numeral.	In First Grade, students will recognize the relationship between addition and subtraction and use that relationship as a possible strategy (i.e., if 12 + 3 is 15, then 15		
 6) Uses counting and matching strategies to find which is more, less than or equal to 10. 	<u>MA.K.NSO.2.2</u> Represent whole numbers from 10 to 20, using a unit of ten and a group of ones, with objects, drawings and expressions or equations.	- 3 is 12). (MA.1.NSO.2.2) In First Grade, students will focus on place		
7) Reads and writes some numerals one to 10 using appropriate activities.	 MA.K.NSO.2.3 Locate, order and compare numbers from 0 to 20 using the number line and terms less than, equal to or greater than. Clarification 1: Within this benchmark, the expectation is not to use the relational symbols =, > or 	value and patterns that are found in numbers. (MA.1.NSO.2.3)		



<u>MA.K.NSO.1.1</u>

The purpose of this benchmark is to help students develop an understanding of cardinality: the principle that the last number when counted in a set represents the total number within the set, and that the number of objects in a set remains the same regardless of the arrangement of the set. Additionally, this benchmark allows students to begin recognizing and writing numerals.

- Instruction includes the use of manipulatives, pictorial representations and real-world contexts to provide a purpose for counting. (MTR.2.1, MTR.7.1)
- Instruction includes symbolic representation of numbers 0 20. (MTR.7.1)

MA.K.NSO.1.2

The purpose of this benchmark is to help students further develop the concept that counting gives the number of objects in a set and to reinforce the counting sequence. Students should count out a given number of objects, and if the counted set is rearranged or moved, students should restate the number of objects without counting.

- Instruction includes the use of manipulatives and pictorial representations.
- Instruction may use ten-frames or similar organizers to help students organize their counting. (MTR.5.1)
- Instruction includes context to provide a purpose for counting. (MTR.7.1)

MA.K.NSO.2.2

The purpose of this benchmark is to help students build the foundation of place value. By decomposing and viewing a number as its 10s and 1s students can begin to use strategies for adding and subtracting in later benchmarks and grade levels as the scale increases.

- Instruction helps students develop the meaning of numbers beyond the conventional names.
- Instruction focuses on multiple ways to represent numbers. (MTR.2.1)
- Instructions build the foundation for expanded form and decomposing numbers, which can be used as a strategy for operations later. (MTR.5.1)

MA.K.NSO.2.3

The purpose of this benchmark is to build on knowledge from comparing in MA.K.NSO.1.4 and to introduce the number line. This benchmark will deepen student understanding of the relationship between numbers, as well as provide the foundation for the number line as a strategy for operations later on.

- Instruction includes varied orientations and ranges of the number line.
 - For example, given number lines can be horizontal, vertical, starting at 0, starting at another number, include blanks or an open number line. (MTR.5.1)
- Instruction includes making a connection to measurement when comparing numbers on a number line, which will help prepare students for using rulers in later grades.

Key Vocabulary	Common Misconceptions:
(may not be	MA.K.NSO.1.1
comprehensive) items in bold can be found	 Students may inaccurately report the number of objects in a set that has been rearranged even though the number was accurately counted before the set was rearranged (i.e., conservation of cardinality).
in the K-5 Glossary	 Students may recount the number of objects in a set that has been rearranged even though the number was accurately counted before the set was rearranged.
ten	 Students may recount a group of objects when asked "how many," rather than reporting the last number counted.
eleven	 Students may not be systematic in their counting.
twelve	 For example, a student may double count or skip numbers.
thirteen	MA.K.NSO.1.2
fourteen	 Students may skip or repeat numbers when counting out objects.
fifteen	 For example, a student may say "14, 15, 17."
order	 Students may lose track of which objects have been counted

cardinality principle	MA.K.NSO.2.2	tain number names	CHARLOTT	
whole number equation expression equal sign	 Students may attach too much meaning to certain number names. Example: sixteen linguistically makes sense as six and teen, or six and ten; while eleven and twelve do not have linguistic cues. Students may think there is only one way to represent numbers with tens and ones. MA.K.NSO.2.3 Students may assume that all number lines start at 0 or 1. When looking at number lines with hash marks, students may number the spaces between the hash marks instead of the hash marks. 			
	Suggested M	lanipulatives		
			O to 20 Number Line 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 0 to 20 Number Line 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 Inc. style="border: 1px style: 1px style="border: 1px style="border: 1px st	
	Instructional SI	kills Sequence		
	Optional: Readiness Diag			
Diagnose	students' strengths and weaknesses with p	-	kills for the upcoming unit.	
Lesson 9-1 Skill: Represent 1 Ten	 Success Criteria: I can bundle a group of 10 ones. I can explain that 10 ones are the same as 1 ten. 	 Proficiency Scale: Counting & Comparing Objects (MA.K.NSO.1) Recite & Represent Number Sequence (MA.K.NSO.2) 	Resources: McGraw Hill Reveal • Lesson 9-1 to 9-8	
Lesson 9-2 Skill: Represent 11, 12, and 13	 Success Criteria: I can represent 11,12, and 13. I can explain how to represent 11,12, and 13. 	 Proficiency Scale: Counting & Comparing Objects (MA.K.NSO.1) 	Formative Assessment: Work Together (during a lesson)	
Lesson 9-3 Skill: Make 11,12, and 13	 Success Criteria: I can make groups of 11,12, and 13 objects. I can explain how to make groups of 11,12, and 13 objects. 	 Proficiency Scale: Recite & Represent Number Sequence (MA.K.NSO.2) 	 Exit Ticket (at the end of a lesson) Math probe (during a unit) Additional Resources: See Grade K BIG-M document for an instructional task(s) and item(s). 	
Lesson 9-4 Skill: Decompose 11,12, and 13	 Success Criteria: I can decompose groups of 11,12, and 13 objects. I can explain how to decompose groups of 11,12, and 13 objects. 	 Proficiency Scale: Recite & Represent Number Sequence (MA.K.NSO.2) 		
Lesson 9-5 Skill: Represent 14 and 15	 Success Criteria: I can represent 14 and 15. I can explain how to represent 14 and 15. 	 Proficiency Scale: Counting & Comparing Objects (MA.K.NSO.1) 		
	Math Probe: Counting Counters			

Lesson 9-6 Skill: Make 14 and 15	 Success Criteria: I can make groups of 14 and 15 objects. I can explain how to make groups of 14 and 15 objects. 	 Proficiency Scale: Recite & Represent Number Sequence (MA.K.NSO.2) 	CHARLOTTE COUNTY Public School:
Lesson 9-7 Skill: Decompose 14 and 15	 Success Criteria: I can decompose groups of 14 and 15 objects. I can explain how to decompose groups of 14 and 15 objects. 	 Proficiency Scale: Recite & Represent Number Sequence (MA.K.NSO.2) 	NOTES
Lesson 9-8 Skill: Compare and Order Numbers to 15	 Success Criteria: I can locate and order numbers to 15 on a number line. I can compare numbers to 15 on a number line using the terms greater than, less than, and equal to 	 Proficiency Scale: Recite & Represent Number Sequence (MA.K.NSO.2) 	



Unit 10: Numbers 1	District Formative Unit Assessment:	
		Unit 10 Assessment A (online)
	Scope and Sequence of the Benchmark	
Recite	MA.K.NSO.1 Develop an understanding for counting using objects in a s MA.K.NSO.2 number names sequentially within 100 and develop an understandi	
Koeno	Instructional Alignment for Benchmark(s) of Focu	
Early Learning Developmental Standards	Kindergarten	First Grade
 Subitizes (immediately recognizes without counting) up to five objects Counts and identifies the number sequence "1 to 31" Demonstrates one-to-one correspondence when counting objects placed in a row (one to 15 and beyond) Identifies the last number spoken tells "how many" up to 10 (cardinality) Constructs and counts sets of objects (one to 10 and beyond) Uses counting and matching strategies to find which is more, less than or equal to 10. Reads and writes some numerals one to 10 using appropriate activities. 	 MA.NSO.1.1 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. 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. MA.K.NSO.1.2 Given a number from 0 to 20, count out that many objects. Clarification 1: Instruction includes giving a number verbally or with a written numeral. MA.K.NSO.2.2 Represent whole numbers from 10 to 20, using a unit of ten and a group of ones, with objects, drawings and expressions or equations. MA.K.NSO.2.3 Locate, order and compare numbers from 0 to 20 using the number line and terms less than, equal to or greater than. Clarification 1: Within this benchmark, the expectation is not to use the relational symbols =, > or 	In First Grade, students will interact with patterns found in counting. (MA.1.NSO.1.1) In First Grade, students will understand that the value of a digit is impacted by its position in a number. A three in the tens place has a value of 30 while a 3 in the ones place has a value of 3. (MA.1.NSO.1.2) In First Grade, students will recognize the relationship between addition and subtraction and use that relationship as a possible strategy (i.e., if 12 + 3 is 15, then 15 – 3 is 12). (MA.1.NSO.2.2) In First Grade, students will focus on place value and patterns that are found in numbers. (MA.1.NSO.2.3)



<u>MA.K.NSO.1.1</u>

The purpose of this benchmark is to help students develop an understanding of cardinality: the principle that the last number when counted in a set represents the total number within the set, and that the number of objects in a set remains the same regardless of the arrangement of the set. Additionally, this benchmark allows students to begin recognizing and writing numerals.

- Instruction includes the use of manipulatives, pictorial representations and real-world contexts to provide a purpose for counting. (MTR.2.1, MTR.7.1)
- Instruction includes symbolic representation of numbers 0 20. (MTR.7.1)

MA.K.NSO.1.2

The purpose of this benchmark is to help students further develop the concept that counting gives the number of objects in a set and to reinforce the counting sequence. Students should count out a given number of objects, and if the counted set is rearranged or moved, students should restate the number of objects without counting.

- Instruction includes the use of manipulatives and pictorial representations.
- Instruction may use ten-frames or similar organizers to help students organize their counting. (MTR.5.1)
- Instruction includes context to provide a purpose for counting. (MTR.7.1)

<u>MA.K.NSO.2.2</u>

The purpose of this benchmark is to help students build the foundation of place value. By decomposing and viewing a number as its 10s and 1s students can begin to use strategies for adding and subtracting in later benchmarks and grade levels as the scale increases.

- Instruction helps students develop the meaning of numbers beyond the conventional names.
- Instruction focuses on multiple ways to represent numbers. (MTR.2.1)
- Instructions build the foundation for expanded form and decomposing numbers, which can be used as a strategy for operations later. (MTR.5.1)

<u>MA.K.NSO.2.3</u>

The purpose of this benchmark is to build on knowledge from comparing in MA.K.NSO.1.4 and to introduce the number line. This benchmark will deepen student understanding of the relationship between numbers, as well as provide the foundation for the number line as a strategy for operations later on.

- Instruction includes varied orientations and ranges of the number line.
 - For example, given number lines can be horizontal, vertical, starting at 0, starting at another number, include blanks or an open number line. (MTR.5.1)
- Instruction includes making a connection to measurement when comparing numbers on a number line, which will help prepare students for using rulers in later grades.

Key Vocabulary	Common Misconceptions:
(may not be	MA.K.NSO.1.1
comprehensive) items in bold can be found	 Students may inaccurately report the number of objects in a set that has been rearranged even though the number was accurately counted before the set was rearranged (i.e., conservation of cardinality).
in the K-5 Glossary	 Students may recount the number of objects in a set that has been rearranged even though the number was accurately counted before the set was rearranged.
Sixteen	 Students may recount a group of objects when asked "how many," rather than reporting the last number counted.
seventeen	 Students may not be systematic in their counting.
eighteen	 For example, a student may double count or skip numbers.
nineteen	MA.K.NSO.1.2
twenty	 Students may skip or repeat numbers when counting out objects.
order	 For example, a student may say "14, 15, 17."
	 Students may lose track of which objects have been counted

cardinality principle natural number whole number equation expression equal sign number line	 MA.K.NSO.2.2 Students may attach too much meaning to certain number names. Example: sixteen linguistically makes sense as six and teen, or six and ten; while eleven and twelve do not h linguistic cues. Students may think there is only one way to represent numbers with tens and ones. MA.K.NSO.2.3 Students may assume that all number lines start at 0 or 1. When looking at number lines with hash marks, students may number the spaces between the hash marks instead the hash marks. 			
	Suggested N	Aanipulatives	0 to 20 Number Line	
			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 0 to 20 Number Line 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 14 15 16 17 18 19 20 wx swing Eto	
	Instructional S	kills Sequence		
Diagnose	<u>Optional:</u> Readiness Diag students' strengths and weaknesses with p	gnostic How Ready Am I?	rills for the uncoming unit	
Lesson 10-1 Skill: Represent 16 and 17	Success Criteria: I can represent 16 and 17 I can explain how to represent 16 and 17	Proficiency Scale: Counting & Comparing Objects (MA.K.NSO.1)	Resources:	
	Math Probe: How Many Counters?		 Lesson 10-1 to 10-8 	
Lesson 10-2 Skill: Make 16 and 17	 Success Criteria: I can make groups of 16 and 17 objects I can explain how to make groups of 16 and 17 objects 	 Proficiency Scale: Recite & Represent Number Sequence (MA.K.NSO.2) 	Formative Assessment: • Work Together (during a lesson)	
Lesson 10-3 Skill: Decompose 16 and 1	Success Criteria:	 Proficiency Scale: Recite & Represent Number Sequence (MA.K.NSO.2) 	 Exit Ticket (at the end of a lesson) Math probe (during a unit) Additional Resources: 	
Lesson 10-4 Skill: Represent 18 and 19	Success Criteria: I can represent 18 and 19 I can explain how to represent 18 and 19	 Proficiency Scale: Counting & Comparing Objects (MA.K.NSO.1) 	See Grade K BIG-M document for an instructional task(s) and item(s).	
Lesson 10-5 Skill: Make 18 and 19	 Success Criteria: I can make groups of 18 and 19 I can explain how to make groups of 18 and 19 objects 	 Proficiency Scale: Recite & Represent Number Sequence (MA.K.NSO.2) 		



Lesson 10-6 Skill: Decompose 18 and 19	 Success Criteria: I can decompose groups of 18 and 19 objects I can explain how to decompose groups of 18 and 19 objects 	 Proficiency Scale: Recite & Represent Number Sequence (MA.K.NSO.2) 	NOTES	CHARLOTTE COUNTY Public Schoolt
Lesson 10-7 Skill: Represent, make and decompose 20	 Success Criteria: I can represent, make, and decompose groups of 20 objects I can explain how to represent, make, and decompose groups of 20 objects 	 Proficiency Scale: Recite & Represent Number Sequence (MA.K.NSO.2) 		
Lesson 10-8 Skill: Compare and order numbers to 20	 Success Criteria: I can locate and order numbers to 20 on a number line I can compare numbers to 20 on a number line using the terms greater than, less than, and equal to 	 Proficiency Scale: Recite & Represent Number Sequence (MA.K.NSO.2) 		



Unit 11: 3-Dimensional Shapes

District Formative Unit Assessment:

			Unit II Assessment A (online)	
	Scope and Sequence of	the Benchmark		
	MA.K.GR.			
	Identify, compare and compose two- c			
	Instructional Alignment for Be	nchmark(s) of Focu	JS	
Early Learning	Kindergarten		First Grade	
Developmental Standards 1) Recognize and names two- dimensional shapes (circles, square, triangle and rectangle) of different size and orientation. MA.K.GR.1.1 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 Benchmark Clarification 1: Instruction includes a wide variety of circles, triangles, rectangles, squares, spheres, cubes, cones and cylinders. In First Grade, students will recognize figure by their defining attributes as this will help them sort figures based on attributes rather than orientation, color, or size. 3) Creates two-dimensional shapes using other shapes (e.g., vertices) 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. Clarification 3: Two-dimensional figures can be either filled, outlined or both. Clarification 3: Two-dimensional figures can be either filled, outlined or both. Clarification 3: Two-dimensional figures can be either filled, outlined or both. Clarification 3: Two-dimensional figures can be either filled, outlined or both. Clarification 3: Two-dimensional figures can be either filled, outlined or both. Clarification 3: Two-dimensional figures can be either filled, outlined or both. Clarification 3: Two-dimensional figures can be either filled, outlined or both. Clarification 3: Two-dimensional figures can be either filled, outlined or both. Clarification 3: Two-d				
 Instructional Strategies: The purpose of this benchmark is to help students identify specific two- and three-dimensional figures, and to make connections between the figures. (MTR.2.1, MTR.5.1) It is not the expectation of this benchmark to make distinctions between two- and three-dimensional figures. Instruction focuses on using a variety of figures including different orientations, such as scalene, isosceles and equilateral triangles, to build the understanding of triangles. (There is no expectation that students learn these terms, but it is important they recognize various types of triangles.) (MTR.2.1) Instruction for rectangles and squares includes their similarities and differences, and the relationship that all squares are rectangles, but not all rectangles are squares. (MTR.5.1) Instruction may use manipulatives and other concrete objects to develop student understanding. Key Vocabulary (may not be comprehensive) items in bold can be found in the K-5 Glossary 2-dimensional shape 3-dimensional shape flat shape solid shape cube face rounded surface sphere base cylinder apex cone circle cylinders rectangles squares triangle Students may not recognize that a square is also a rectangle. Students may not recognize that a square is also a rectangle. Students may not recognize that a square is also a rectangle. Students may not recognize that a square is also a rectangle. For example, students may place large circles with large triangles, or separate large triangles and small triangles. 				

	Suggested N	<u> Nanipulatives</u>	
	3-Dimensio	onal Shapes	
	Cube Rectangular Prism	ere Cone Cylinder	
	Instructional S	kills Sequence	
	<u>Optional:</u> Readiness Diag	gnostic How Ready Am I?	
Diagnose	students' strengths and weaknesses with p	rerequisite concepts and s	kills for the upcoming unit.
Lesson 11-1 Skill:	Success Criteria:	Proficiency Scale:	Resources:
2-Dimensional and 3-	 I can tell if a shape is flat or solid. 	 Identify & Compare 2-D 	
Dimensional Shapes	 I can tell the difference between flat 	and 3-D Shapes	McGraw Hill Reveal
	shapes and solid shapes.	(MA.K.GR.1)	 Lesson 11-1 to 11-6
	Math Probe: Flat Shape or Solid Shape?		
Lesson 11-2 Skill:	Success Criteria:	Proficiency Scale:	Formative Assessment:
Cubes	 I can identify a cube. 	 Identify & Compare 2-D 	 Work Together (during a lawar)
	 I can describe a cube. 	and 3-D Shapes	lesson)Exit Ticket (at the end of a
Lesson 11-3 Skill:	Success Criteria:	(MA.K.GR.1)	lesson)
Spheres	 I can identify and name a sphere. 	Proficiency Scale:Identify & Compare 2-D	 Math probe (during a unit)
spheres	 I can describe a sphere. 	and 3-D Shapes	
		(MA.K.GR.1)	Additional Resources:
Lesson 11-4 Skill:	Success Criteria:	Proficiency Scale:	
Cylinders	 I can identify and name a cylinder 	 Identify & Compare 2-D 	See Grade K BIG-M document for a
	 I can describe a cylinder 	and 3-D Shapes	instructional task(s) and item(s).
		(MA.K.GR.1)	
Lesson 11-5 Skill:	Success Criteria:	Proficiency Scale:	
Cones	 I can identify and name a cone. 	 Identify & Compare 2-D 	
	 I can describe a cone. 	and 3-D Shapes	
		(MA.K.GR.1)	
Lesson 11-6 Skill:	Success Criteria:	Proficiency Scale:	NOTES
Describe Solids	 I can identify and name a solid shape. 	 Identify & Compare 2-D 	
	 I can describe the location of solid shapes. 	and 3-D Shapes	
		(MA.K.GR.1)	

CHARLOTTE COUNTY Public Schoole

Unit 12: Count to 100

District Formative Unit Assessment: Unit 12 Assessment A (online)

MA.K.NSQ.1 Develop an understanding for counting using objects in a set MA.K.NSQ.2 Recite number names sequentially within 100 and develop an understanding for place value Early Learning Developmental Standards Carly Learning Developmental Standards Counting up to five objects Subitizes (immediately recognizes without counting) up to five objects Generating and identifies the number sequence "1 to 31" Demonstrates one-to-one correspondence when spoken telts "how many" up to 10 (cardinality) MA.K.NSO.1 First Grade Other and the number of objects in a rearrangement of that group without recounting. In First Grade, students will interact with patterns found in counting. Observation Carlification 1: instruction focuses on developing an understanding of cardinality and one-to-one correspondence. In First Grade, students will understand that the value of a 30 while a 3 in the one space tells "how many" up to 10 (cardinality) In Einst Carde, students will understand that the value of a 30 while a 3 in the one space has a value of 30. In Einst Grade, students will continue their exploration an understanding of the number in word form. He value of a digit is impacted by its or with a written numeral. In Einst Grade, students will continue their exploration and reliability towards efficiency and eventually automaticity. (MA.1.NSO.1.2) Private and the origin a number, the number in word form. In First Grade, students will continue their exploration and reliab		Scope and Sequence of the Benchmark	
Early Learning Developmental Standards Kindergarten First Grade 1) Subitizes (immediately recognizes without counting) up to five objects MA.NSO.1.1 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. In First Grade, students will interact with patterns found in counting. (MA.1.NSO.1.1) 3) Demonstrates one-to-one correspondence when counting objects placed in a row (one to 15 and beyond) • 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. In First Grade, students will understand that the value of a digit is impacted by its position in a number. A three in the tens place has a value of 30 while a 3 in the ones place has a value of 3. (MA.1.NSO.1.2) 5) Constructs and counts sets of objects (one to 10 and beyond) • Clarification 1: Instruction includes giving a number verbally or with a written numeral. In First Grade, students will continue their exploration and reliability towards efficiency and eventually automaticity. (MA.1.NSO.2.1) 7) Reads and writes some numerals one to 10 using • Clarification 1: Instruction includes giving a number verbally or with a written numeral. In First Grade, students will continue their exploration and reliability towards efficiency and eventually automaticity. (MA.1.NSO.2.1)	Recite	Develop an understanding for counting using objects in a s MA.K.NSO.2	
Developmental Standards 1) Sublitzes (immediately recognizes without counting) up to five objects 2) Counts and identifies the number of objects in a rearrangement of bat some a group of up to 20 objects, count the number of objects with a written numeral. State the number of objects in a rearrangement of that group without recounting. 3) Demonstrates one-to-one correspondence when counting objects placed in a row (one to 15 and beyond) 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 spondence. Clarification 3: Within this benchmark, the expectation is not to write the number in word form. Clarification 1: Instruction includes giving a number verbally or with a written numeral. MALKINSO.1.2 Given a number from 0 to 20, count out that many objects. Clarification 1: Instruction includes giving a number verbally or with a written numeral. In First Grade, students will continue their exploration and reliability towards efficiency and eventually automaticity. (MA.1.NSO.2.1) MAK.NSO.1.2 Reads and writes some numerals one to 10 using Reads and writes some numerals one to 10 using Reads and writes some numerals one to 10 using Reads and writes some numerals one to 10 using Reads and writes some numerals one to 10 using Reads and writes some numerals one to 10 using Reads and writes some numerals one to 10 using Reads and writes some numerals one to 10 using Reads and writes some numeral			
Developmental Standards 1) Sublitzes (immediately recognizes without counting) up to five objects 2) Counts and identifies the number of objects in a counting objects and in that group of up to 20 objects, in a rearrangement of that group without recounting. 3) Demonstrates one-to-one correspondence when counting objects placed in a row (one to 15 and beyond) 4) Identifies the last number spoken tells "how many" up to 10 (cardinality) 5) Constructs and counts sets of objects (one to 10 and beyond) 6) Uses counting and matching strategies to find which is more, less than or equal to 10. 7) Reads and writes some numerals one to 10 using	Early Learning	Kindergarten	First Grade
	 Developmental Standards 1) Subitizes (immediately recognizes without counting) up to five objects 2) Counts and identifies the number sequence "1 to 31" 3) Demonstrates one-to-one correspondence when counting objects placed in a row (one to 15 and beyond) 4) Identifies the last number spoken tells "how many" up to 10 (cardinality) 5) Constructs and counts sets of objects (one to 10 and beyond) 6) Uses counting and matching strategies to find which is more, less than or equal to 10. 7) Reads and writes some numerals one to 10 using 	 MA.NSO.1.1 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. 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. MA.K.NSO.1.2 Given a number from 0 to 20, count out that many objects.	In First Grade, students will interact with patterns found in counting. (MA.1.NSO.1.1) In First Grade, students will understand that the value of a digit is impacted by its position in a number. A three in the tens place has a value of 30 while a 3 in the ones place has a value of 3. (MA.1.NSO.1.2) In First Grade, students will continue their exploration and reliability towards efficiency and eventually automaticity.



<u>MA.K.NSO.1.1</u>

The purpose of this benchmark is to help students develop an understanding of cardinality: the principle that the last number when counted in a set represents the total number within the set, and that the number of objects in a set remains the same regardless of the arrangement of the set. Additionally, this benchmark allows students to begin recognizing and writing numerals.

- Instruction includes the use of manipulatives, pictorial representations and real-world contexts to provide a purpose for counting. (MTR.2.1, MTR.7.1)
- Instruction includes symbolic representation of numbers 0 20. (MTR.7.1)

MA.K.NSO.1.2

The purpose of this benchmark is to help students further develop the concept that counting gives the number of objects in a set and to reinforce the counting sequence. Students should count out a given number of objects, and if the counted set is rearranged or moved, students should restate the number of objects without counting.

- Instruction includes the use of manipulatives and pictorial representations.
- Instruction may use ten-frames or similar organizers to help students organize their counting. (MTR.5.1)
- Instruction includes context to provide a purpose for counting. (MTR.7.1)

MA.K.NSO.2.1

The purpose of this benchmark is for students to continue through exploration and reliability towards efficiency and eventually automaticity. In Kindergarten, students added two one-digit numbers with sums from 0 - 10 and they subtracted by using related facts with procedural reliability. Instruction for Kindergarten focused first on exploring to build understanding, then students focused on selecting reliable methods.

- Instruction focuses on the fact that automaticity is usually the result of repetition and practice.
- Instruction of this benchmark should not be in isolation from other benchmarks that emphasize understanding.
- Instruction should not focus on speed or competition in the classroom.
- The correct way to assess automaticity is to <u>observe students</u> within the instructional setting as they complete problems that involve addition and subtraction. Even though such problems can typically be done without automaticity they will be done with less effort with automaticity.

	Even mough such problems can rypically be done wimour durornalicity mey will be done with less enon with automaticity.
Key Vocabulary	Common Misconceptions:
(may not be	
comprehensive)	MA.K.NSO.1.1
items in bold can	 Students may inaccurately report the number of objects in a set that has been rearranged even though the number was accurately accurately before the set was accurately accurately.
be found in the K-	counted before the set was rearranged (i.e., conservation of cardinality). Students may recount the number of objects in a set that has been rearranged even though the number was accurately counted.
5 Glossary	 Students may recount the number of objects in a set that has been rearranged even though the number was accurately counted before the set was rearranged.
	 Students may recount a group of objects when asked "how many," rather than reporting the last number counted.
cardinality	 Students may not be systematic in their counting.
principle	 For example, a student may double count or skip numbers.
natural number	MA.K.NSO.1.2
	 Students may skip or repeat numbers when counting out objects.
whole number	 For example, a student may say "14, 15, 17."
	 Students may lose track of which objects have been counted
	MA.K.NSO.2.2
	 Students may have difficulty moving from one group of tens to the next.
	 For example, knowing that 30 comes after 29. Students may have to recount by tens to determine the next ten when counting through to 100.
	 Students may be confused by the different pattern of word names for the "teens."

	Suggested M	anipulatives	
	1 2 3 4 5 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 41 42 43 44 45 51 52 53 54 55 61 62 63 64 65 71 72 73 74 75 81 82 83 84 85 91 92 93 94 95	6 7 8 9 10 16 17 18 19 20 26 27 28 29 30 36 37 38 39 40 46 47 48 49 50 56 57 58 59 60 66 67 68 69 70 76 77 78 79 80 86 87 88 89 90	O to 20 Number Line 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 O to 20 Number Line 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 Urk source E40
	Instructional SI	kills Sequence	
Diagnose s	<u>Optional:</u> Readiness Diag tudents' strengths and weaknesses with pr	nostic How Ready Am I?	ills for the upcoming unit.
Lesson 12-1 Skill: Count 1s to 50	 Success Criteria: I can count by 1s to 50 I can describe patterns when counting by 1s and 50 	 Proficiency Scale: Recite & Represent Number Sequence (MA.K.NSO.2) 	Resources: McGraw Hill Reveal Lesson 12-1 to 12-6
Lesson 12-2 Skill: Count back by 1s within 20	 Success Criteria: I can count backward by 1s from 20 I can describe patterns when counting backward by 1s from 20 	 Proficiency Scale: Recite & Represent Number Sequence (MA.K.NSO.2) 	Formative Assessment: • Work Together (during a lesson)
Lesson 12-3 Skill: Count by 1s to 100	 Success Criteria: I can count by 1s to 100 I can describe patterns when counting by 1s to 100 	 Proficiency Scale: Recite & Represent Number Sequence (MA.K.NSO.2) 	 Exit Ticket (at the end of a lesson) Math probe (during a unit)
	Math Probe: What Number Comes After	?	Additional Resources:
Lesson 12-4 Skill: Count by 10s to 100	 Success Criteria: I can count by 10s to 100 I can describe patterns when counting by 10s to 100 	 Proficiency Scale: Recite & Represent Number Sequence (MA.K.NSO.2) 	See Grade K BIG-M document for an instructional task(s) and item(s).
Lesson 12-5 Skill: Count from any number to 100	 Success Criteria: I can count by 1s to 100, starting at any given number I can describe how to count by 1s to 100, starting at any number 	 Proficiency Scale: Recite & Represent Number Sequence (MA.K.NSO.2) 	
Lesson 12-6 Skill: Count to find out how many	 Success Criteria: I can count to answer "how many?" about as many as 20 things I can describe how to count to answer "how many?" about as many as 20 things 	 Proficiency Scale: Counting & Comparing Objects (MA.K.NSO.1) 	



Unit 13: Analyze, Con	District Formative Unit Assessment: Unit 13 Assessment A (online)			
	Scope and Sequence of the Benchmark			
	MA.K.GR.1			
	Identify, compare and compose two- and three-dimensional figu	Jres.		
	Instructional Alignment for Benchmark(s) of Focus			
Early Learning Developmental Standards	Kindergarten <u>MA.K.GR.1.2</u> Compare two-dimensional figures based on their similarities,	First Grade		
 Recognize and names two- dimensional shapes (circles, square, triangle and rectangle) of different size and orientation. Describes, sorts and classifies two- and three-dimensional shapes using some attributes 	 differences and positions. Sort two-dimensional figures based on their similarities and differences. Figures are limited to circles, triangles, rectangles and squares. Example: A triangle can be compared to a rectangle by stating that they both have straight sides, but a triangle has 3 sides and vertices, and a rectangle has 4 sides and vertices 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. 	In First Grade, students will have an understanding of the various attributes to sketch a two-dimensional figure. (MA.1.GR.1.2)		
 such as size, sides and other properties (e.g., vertices) 3) Creates two-dimensional shapes using other shapes (e.g., putting two squares together to make a rectangle.) 4) Constructs with three-dimensional shapes in the environment through play (e.g., building castles in the 	 MA.K.GR.1.3 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. 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. MA.K.GR.1.4 Find real-world objects that can be modeled by a given two- or three- 	In First Grade, students will be working with spatial reasoning. Students will begin to see figures as compositions of other figures, (MA.1.GR.1.3)		
construction area)	 dimensional figure. Figures are limited to circles, triangles, rectangles, squares, spheres, cubes, cones and cylinders. <u>MA.K.GR.1.5</u> Combine two-dimensional figures to form a given composite figure. Figures used to form a composite shape are limited to triangles, rectangles and squares. • Example: Two triangles can be used to form a given rectangle. Clarification 1: This benchmark is intended to develop the understanding of spatial relationships 	In First Grade, students will recognize that real-world objects can be modeled by two- and three-dimensional figures. (MA.1.GR.1.4)		



MA.K.GR.1.2

The purpose of this benchmark is for students to build on their understanding of classification of two-dimensional figures by finding similarities and differences between shapes. (MTR.5.1)

- Instruction includes opportunities for students to sort images based on various criteria, such as same number of sides, and figures with all straight sides. (MTR.2.1, MTR.5.1)
- Instruction includes helping students describe objects based on relative positions. Relative position refers to students identifying left/right, in front of/behind, apart and above/below. When comparing figures students should understand that relative position can change even though the other features of the figures stay the same.
- Instruction includes figures of various sizes and orientations, and may include figures that are not triangles, circles, rectangles or squares. (MTR.2.1)
- Instruction includes examples of squares when discussing rectangles.
- Right angles are technically not addressed until grade 4, but it is appropriate to discuss "square corners" and corners that are not square in an informal way in Kindergarten.

<u>MA.K.GR.1.3</u>

The purpose of this benchmark is for students to build on their understanding of classification of three-dimensional figures by finding similarities and differences between shapes.

- Instruction focuses on sorting and classifying three-dimensional figures.
- Instruction includes opportunities for students to sort figures based on various criteria, such as same number of faces and figures with all flat sides. (MTR.5.1)
- Instruction includes figures of various sizes and orientations, and may include nonstandard versions of figures as well. (MTR.2.1)
- Relative position refers to students identify

<u>MA.K.GR.1.4</u>

The purpose of this benchmark is to allow students an opportunity to apply understanding of classification and language they have learned regarding figures to the real world. (MTR.7.1)

- Instruction should include objects that may not be a perfect representation, but are approximate models for representing appropriate figures.
- Instruction should include bringing in additional items that are familiar and can be modeled by appropriate figures (cans of soup, Rubik's Cube, cones, etc.).

MA.K.GR.1.5

The purpose of this benchmark is to allow students opportunities to discover further connections and patterns with two-dimensional figures. Students should have an opportunity to investigate combining figures in a variety of sizes and orientations. (MTR.2.1, MTR.5.1)

- Instruction includes composite figures that may be named based on previous benchmarks, as well as those not included in previous benchmarks, though there is no expectation of a formal name for new composite shapes outside of previously named figures.
 - For example, a triangle and square forming a pentagon, may not need to be formally identified as a pentagon. Two triangles that form a rectangle can be formally identified as a rectangle.
- Exploring with figures of different sizes and orientations allows students to continue to develop an understanding of spatial reasoning (MTR.2.1).

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Key Vocabulary (may	Common Misconceptions:			
not be comprehensive)	MA.K.GR.1.2			
items in bold can be	Students may not understand that all squares are also classified as rectangles; however, only specific rectangles (with sides that are the same length)			
found in the K-5 Glossary	are also classified as squares.			
	Students may sort figures separately because of orientation and/or size rather than the identified attributes of the figures.			
	MA.K.GR.1.3			
circle rectangle	Students may sort figures separately because of orientation and size rather than the identified attributes of the figures.			
square triangle	Students may inaccurately name and sort three-dimensional figures based on the names of their two-dimensional faces.			
cones cubes	MA.K.GR.1.4			
	In real life, many objects can be appropriately modeled with both two-dimensional and three-dimensional figures. For the purpose of this			
cylinders	benchmark, do not struggle with this. Allow students flexibility and rely on their justifications. (MTR.4.1, MTR.6.1)			
spheres	MA.K.GR.1.5			
	• Students may attempt to compose figures without regard to aligning sides or vertices. The overlap may cause difficulty in naming or describing			
	the new composite figures.			
	 Students may avoid lining the edges of two figures if the sides aren't the same length. 			
	• For example, it could be appropriate to join several rectangles of various sizes to make a figure that looks like a building with towers.			

	Suggested Man	nipulatives		
	Instructional Skill	s Sequence		
	<u>Optional:</u> Readiness Diagna	ostic How Ready Am I?		
Diagnose stude	ents' strengths and weaknesses with prer	equisite concepts and skills	for the upcoming unit.	
Lesson 13-1 Skill: Compare and Contrast 2- Dimensional Shapes	 Success Criteria: I can explain how 2-dimensional shapes are alike and different I can compare and contrast 2-dimensional shapes using their defining attributes 	 Proficiency Scale: Identify & Compare 2-D and 3-D Shapes 	Resources: McGraw Hill Reveal Lesson 13-1 to 13-6	
Lesson 13-2 Skill: Sort 2-Dimensional Shapes by Attributes	 Success Criteria: I can sort 2-dimensional shapes by one attribute I can explain how to sort 2-dimensional shapes by one attribute 	Proficiency Scale: Identify & Compare 2-D and 3-D Shapes	Formative Assessment: Work Together (during a lesson) Exit Ticket (at the end of a	
	Math Probe: Which Shape Does Not Belong?	·	lesson)	
Lesson 13-3 Skill: Compare and Contrast 3- Dimensional Shapes	 Success Criteria: I can explain how 3-dimenisonal shapes are alike and different. I can compare and contrast 3-dimensional shapes using their defining attributes 	 Proficiency Scale: Identify & Compare 2-D and 3-D Shapes 	 Math probe (during a unit) Additional Resources: See Grade K BIG-M document for an instructional task(s) and item(s). 	
Lesson 13-4 Skill: Sort 3-Dimensional Shapes by Attributes	 Success Criteria: I can sort 3-dimensional shapes by one attribute I can explain how to sort 3-dimensional shapes by one attribute. 	 Proficiency Scale: Identify & Compare 2-D and 3-D Shapes 		
Lesson 13-5 Skill: Compose 2-Dimensional Shapes by Attributes	 Success Criteria: I can use 2-dimensional shapes to form larger 2-dimensional shapes I can explain how to use shapes to form larger shapes 	 Proficiency Scale: Identify & Compare 2-D and 3-D Shapes 		
Lesson 13-6 Skill: Model Shapes in the World	 Success Criteria: I can identify 2-dimensional shapes I see in the world I can identify 3-dimensional shapes I see in the world 	 Proficiency Scale: Identify & Compare 2-D and 3-D Shapes 		



Unit 14: Compare Mee	asurable Attributes	District Formative Unit Assessment: Unit 14 Assessment A (online)	
Scope and Sequence of the Benchmark			
	MA.K.M.1		
	Identify and compare measurable attributes of	f objects	
	Instructional Alignment for Benchmark(s) of	Focus	
Early Learning Developmental	Kindergarten	First Grade	
Standards	 MA.K.M.1.1 Identify the attributes of a single object that can be measured such as length, volume or weight. Clarification 1: Within this benchmark, measuring is not required. MA.K.M.1.2 Directly compare two objects that have an attribute which can be measured in common. Express the comparison using language to describe the difference. 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. MA.K.M.1.3 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. Example: A piece of paper can be measured using paper clips. 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. 	In First Grade, students will estimate length and formally and accurately measure the length of objects using a ruler. (MA.2.M.1.1) In First Grade, students will explore transitivity. Transitivity is a relation between three elements. For example, if object A is longer than object B and object B is longer than object C, then object A must be longer than C as well. (MA.2.M.1.2)	

CHARLOTTE COUNTY Public Schools

Instructional Strategies:

<u>MA.K.M.1.1</u>

The purpose of this benchmark is to develop an understanding for measurement and attributes that can be measured, without focusing on the value of the measurement. Through this benchmark students begin to develop related vocabulary they will also apply in later benchmarks and grade levels.

- Instruction includes students describing measurable attributes and using vocabulary such as tall, short, long, heavy and light. (MTR.4.1)
- Instruction includes the introduction of terms to compare measurable attributes, such as longer, shorter, heavier and lighter.
- Instruction includes concrete objects as well as images and context to describe measurable attributes. (MTR.7.1)
- The expectation of this benchmark is not to focus on numerical values of measurement by estimating or measuring, but to develop understanding of attributes that can be measured and vocabulary used to describe those attributes.

MA.K.M.1.2

The purpose of this benchmark is to continue to develop an understanding for attributes that can be measured, described and compared, not numerical measurement.

- Instruction includes comparing attributes such as length (including height), weight and capacity.
- There is no expectation of comparing numerical measurement, but to directly compare objects with one another. (MTR.5.1)

 For example, the ladder is taller than the man.
- Instruction includes the development of vocabulary terms and phrases that can be used to describe and compare measurable attributes. (MTR.4.1)
- Instruction includes concrete objects as well as images and context to describe measurable attributes. (MTR.7.1)

<u>MA.K.M.1.3</u>

The purpose of this benchmark is to develop the foundation for measuring with given units. Though students will take measurements using nonstandard units or objects, this will provide a foundation for standard units of measurement in later grades. (MTR.5.1)

- Instruction emphasizes the naming of units when recording or giving measurements.
 - For example, the pencil is 6 paperclips long.
- Instruction uses objects that can be measured in whole units, or close enough that there will be no misconceptions or errors related to rounding or estimating.
- Instruction includes concrete objects as well as images and context for students to measure. (MTR.7.1)
- Instruction includes students measuring an object using various non-standard units (erasers, paperclips or candy bars), comparing the results
 and seeing that when the unit is larger the number required is smaller. (MTR.2.1)

Key Vocabulary (may		Common Misconceptions:
not be comprehensive)		MA.K.M.1.1
items in bold can be found		 Students may confuse volume with weight, or length with volume.
in the K-5 Glossary		 Students may assume that there is only one way to describe attributes.
capacity height length weight long (longer) short (shorter) high (higher) tall (taller)	heavy (heavier) light (lighter) weighs less weighs more empty full holds less holds more measure	 For example, one students may conclude that an object is short, heavy or long, while another may conclude the opposite. The students may assume that one of them has to be correct. MA.K.M.1.2 Students may incorrectly apply terms for comparing the attributes of objects. Students may assume that a larger object is also a heavier object. Students may assume that a taller container can hold more liquid. Students may confuse position with measurement, especially when dealing with height. MA.K.M.1.3 Students may leave gaps or overlaps between objects when measuring, leading to inaccurate results. Students may mix different size units in the same measurement.

	Sugge	ested Manipulatives		
	Conne	ecting Cubes		
			 Cups of differen Objects to com weight, and cap 	
	Instructio	onal Skills Sequence		
		ss Diagnostic How Ready	Am I?	
Diaanose stu	Idents' strengths and weaknesses	- · ·		he upcoming unit.
Lesson 14-1 Skill: Describe Attributes of Objects	 Success Criteria: I can describe objects using length, he weight, and capacity I can explain different ways to describe same object. 	eight, Proficiency Scale: Identify & Comp Objects: both Sta	are Attributes of andard and	Resources: McGraw Hill Reveal Lesson 14-1 to 14-7
Lesson 14-2 Skill: Compare Lengths	 Success Criteria: I can compare two objects by length I can describe an object as longer or si than another object 	horter Proficiency Scale: Identify & Comp Objects; both Sta Nonstandard (M	andard and	Formative Assessment: Work Together (during a lesson)
Lesson 14-3 Skill: Compare Heights	 Success Criteria: I can compare two objects by heights I can describe an object as taller or she than another object. 	Proficiency Scale: Identify & Comp	are Attributes of andard and	 Exit Ticket (at the end of a lesson) Math probe (during a unit)
	Math Probe: Comparing O		•	Additional Resources:
Lesson 14-4 Skill: Measure Lengths of Objects	 Success Criteria: I can measure an object using nonstar units I can explain how to measure an object nonstandard units. 	Objects: both St	are Attributes of andard and A K M 1)	See Grade K BIG-M document for an instructional task(s) and item(s).
Lesson 14-5 Skill: Measure More Lengths of Objects	 Success Criteria: I can measure an object using nonstar units I can explain how to measure an object nonstandard units. 	Objects; both Sto		
Lesson 14-6 Skill: Compare Weights	 Success Criteria: I can compare two objects by weight I can describe an object as heavier or than another object. 	nter Proficiency Scale: Identify & Compare Attributes Objects; both Standard and Nonstandard (MA.K.M.1) 		-
Lesson 14-7 Skill: Compare Capacities	 Success Criteria: I can compare two objects by capacitive in a compare two objects by capacitive in a compare two objects as holding more holding less than another object. 	ty Proficiency Scale: Identify & Compar	re Attributes of ndard and	