Grade K Math Proficiency Scale T1

	Novice "1"	Approaching "2"	Proficient "3"	Advanced "4"
Communication MP 3 & 6	Practices sharing an oral explanation of mathematical thinking.	Provides an oral explanation of mathematical thinking.	Explains thinking; and justifies and communicates using precise vocabulary.	Explains thinking; and justifies and communicates using precise vocabulary, orally and in writing.
Critical Thinking MP 1, 2, 4, 5, 7, 8	Practices recalling basic information given in a problem; and choosing a strategy to solve a problem; and modeling situations with manipulatives or drawings.	Uses information to make connections; selects a solution path from given strategies, models situations with manipulatives or drawings.	Gathers information to make connections, plans a solution path by choosing a strategy, models situations with manipulatives or drawings, looks for patterns and structure.	Gathers information, makes connections; chooses a strategy to solve, models math with manipulatives or drawings, looks for patterns and structure; and connects this to mathematical procedures.
Counting & Cardinality K.CC.1, 3, 4, 6	Practices names and count sequences within 10 and identifying and writing numerals 1-5 and counting and comparing sets of objects in the range of 1-5 using 1:1 correspondence, counting and/or matching strategies.	Knows names and count sequences within 10 and can identify and write numerals 1-5 and counts and compares sets of objects in the range of 1-5 using counting and/or matching strategies.	Knows names and count sequences within 20 and can identify and write numerals to 10 and counts and compares sets of objects in the range of 1-5, telling which is more and which is less.	Demonstrates proficiency and uses knowledge of patterns and structure to compare sets of objects and write numbers beyond the given range and counts within the range 1-100.
Geometry K.G.2, 4	Practices recognizing two dimensional shapes.(triangle, square, circle, rectangle)	Recognizes two dimensional shapes.(triangle, square, circle, rectangle)	Identifies and describes two dimensional shapes (triangle, square, circle, rectangle) by number of sides, corners, etc.	Demonstrates proficiency and analyzes and compares a variety of two- and three-dimensional shapes in the environment while explaining the reasoning to justify their thinking.
Measurement & Data Number & Operation Operations & Algebraic Thinking	**Measurement and Data**: This category is not adequately assessed in this trimester.			
	Number and Operations in Base Ten: This category is not adequately assessed in this trimester.			
	Operations and Algebraic Thinking: This category is not adequately assessed in this trimester. Students will work throughout the year to become fluent through five and be able to solve addition and subtraction problems through ten. Teachers will make informal observations of this progress in T1 and T2.			

Grade K Math Proficiency Scale T2

	Novice "1"	Approaching "2"	Proficient "3"	Advanced "4"
Communication MP 3 & 6	Practices sharing an oral explanation of mathematical thinking.	Provides an oral explanation of mathematical thinking.	Explains thinking; and justifies and communicates using precise vocabulary.	Explains thinking; and justifies and communicates using precise vocabulary, orally and in writing.
Critical Thinking MP 1, 2, 4, 5, 7, 8	Practices recalling basic information given in a problem; and choosing a strategy to solve a problem; and modeling situations with manipulatives or drawings.	Uses information to make connections; selects a solution path from given strategies, models situations with manipulatives or drawings.	Gathers information to make connections, plans a solution path by choosing a strategy, models situations with manipulatives or drawings, looks for patterns and structure.	Gathers information makes connections; chooses a strategy to solve, models math with manipulatives or drawings, looks for patterns and structure; and connects this to mathematical procedures.
Counting & Cardinality K.CC.2, 3, 4, 6	Practices numeral names and count sequences within 20 and identifying and writing numerals 1-10 and counting and comparing sets of objects in the range of 1-5 using counting and/or matching strategies.	Knows names and count sequences to 20 and can identify and write numerals to 10; and counts and compares sets of objects in the range of 1-5, telling which is more and which is less (may use counting or matching strategies).	Knows names and count sequences to 40 starting from any number and counts backwards from any number within 5 and can identify and write numerals to 15 and counts and compares sets of objects in the range of 1-10, telling which is more and which is less.	Demonstrates proficiency and uses knowledge of patterns and structure to compare sets of objects and write numbers beyond the given range and counts within the range of 1-100 by ones and tens.
Geometry K.G.1, 2, 3, 4	Practices identifying and describing two-dimensional shapes (triangle, square, circle, rectangle) and practices understanding academic language related to geometry (above, below, beside, in front of, behind, and next to)	Identifies and describes two dimensional shapes (triangle, square, circle, rectangle) by number of sides, corners, etc. and develops academic language related to geometry (above, below, beside, in front of, behind, and next to)	Identifies and describes two dimensional shapes (regardless of orientation or size) while describing the location of objects using words like *above*, *below*, *beside*, *in front of*, *behind*, and *next to*.	Demonstrates proficiency and analyzes and compares a variety of two- and three-dimensional shapes in the environment while explaining the reasoning to justify their thinking.

Measurement & Data 3.MD.3	Practices identifying attributes of a given object and identifying similarities and differences in the attributes of two or more given objects. Practices classifying objects into basic given categories and counting based on counting proficiency.	Identifies attributes of a given object and identifies similarities and differences in the attributes of two or more given objects. Classifies objects into basic given categories and counts based on counting proficiency.	Classifies objects into given categories and counts the number of objects in each category. The student sorts the categories by count.	Demonstrates proficiency and analyzes and compares a variety of quantities in the environment, determines the criteria by which a given set of categorial data was sorted while explaining the reasoning to justify their thinking.
Number & Operations in Base Ten			This category is not assessed in this trimester.	
Operations & Algebraic Thinking			This category is not assessed in this trimester. Students will continue growth to become fluent through five and be able to solve addition and subtraction problems through ten. Teachers will make informal observations of this progress in T1 and T2.	

Grade K Math Proficiency Scale T3

	Novice "1"	Approaching "2"	Proficient "3"	Advanced "4"
Communication MP 3 & 6	Practices sharing an oral explanation of mathematical thinking.	Provides an oral explanation of mathematical thinking.	Explains thinking; and justifies and communicates using precise vocabulary.	Explains thinking; and justifies and communicates using precise vocabulary, orally and in writing.
Critical Thinking MP 1, 2, 4, 5, 7, 8	Practices recalling basic information given in a problem; and choosing a strategy to solve a problem; and modeling situations with manipulatives or drawings.	Uses information to make connections; selects a solution path from given strategies, models situations with manipulatives or drawings.	Gathers information to make connections, plans a solution path by choosing a strategy, models situations with manipulatives or drawings, looks for patterns and structure.	Gathers information makes connections; chooses a strategy to solve, models math with manipulatives or drawings, looks for patterns and structure; and connects this to mathematical procedures.
Counting & Cardinality K.CC.1, 2, 3, 4, 5, 6	Practices numeral names and count sequences within 40 and identifying and writing numerals 1-10 and counting and comparing sets of objects in the range of 1-10 using counting and/or matching strategies.	Knows names and count sequences to 40 starting from any number and counts backwards from any number within 5 and can identify and write numerals to 15 and counts and compares sets of objects in the range of 1-10, telling which is more and which is less.	Knows names and count sequences to 100 starting from any number and tens and identifies and writes numerals 0-20 and counts and compares sets of objects in the range of 1-10, telling which is more and which is less.	Demonstrates proficiency and uses knowledge of patterns and structure to compare sets of objects and write numbers beyond the given range while explaining reasoning to justify their thinking.
Geometry K.G. 1, 2, 3, 4, 6	Practices identifying, describing, and sorting two-dimensional shapes; and describing the location of objects using words like *above, below, beside, in front of, behind,* and *next to.*	Identifies, describes, and classifies two-dimensional shapes while describing the location of objects using words like *above*, *below*, *beside*, *in front of*, *behind*, and *next to*.	Identifies, describes, and classifies two- and three-dimensional shapes while describing the location of objects using words like *above*, *below*, *beside*, *in front of*, *behind*, and *next to*.	Demonstrates proficiency and analyzes and compares a variety of two- and three-dimensional shapes in the environment while explaining the reasoning to justify their thinking.

Measurement & Data K.MD. 1, 2, 3	Practices identifying measurable attributes and differentiating between length, width, and height and classifying objects into given categories while counting the number of objects in each category. The student practices sorting the categories by count.	Identifies measurable attributes and differentiates between length, width, and height and classifies objects into given categories while counting the number of objects in each category. The student sorts the categories by count.	Describes the measurable attributes of a given object and directly compares two objects in terms of a specified measurable attribute (i.e.: length, height, and/or weight).	Demonstrates proficiency and analyzes and describes situations in which it is useful to know how much of a measurable attribute something possesses. Explain reasoning to justify their thinking.
Number & Operations in Base Ten K.NBT.1	Practices counting in the range of 1-20 and to identifying teen numbers. .	Counts in the range of 1-20 and identifies teen numbers and composes and decomposes numbers in the range 1-10 and some in the range of 1-20.	Understands that teen numbers are a group of ten and more ones and can compose and decompose teen numbers in more than one way.	Demonstrates proficiency and analyzes and understands tens and ones in higher decuples while explaining the reasoning to justify their thinking.
Operations & Algebraic Thinking K.OA.2, 3, 5	Practices putting together and taking apart to develop understanding of addition and subtraction and finds the number needed to make 5 with any number 1-4.	Recognizes +, -, and = symbols and represents addition and subtraction in a variety of ways and solves addition and subtraction story problems within 5 and finds the number needed to make 10 with any number 1-9.	May use objects or drawings to solve addition and subtraction problems and word problems within 10 and decomposes numbers within 10 in more than one way, and fluently adds and subtracts within 5.	Demonstrates proficiency and analyzes and solves addition and subtraction problems and story problems using advanced strategies and decomposes numbers in the range of 1-10 into three or more parts while explaining the reasoning to justify their thinking.