

Strand	Standards Reference	Grade K: MATH Grade Level Expectations
Numeration M 1.1	Understanding Numbers	The student understands WHOLE NUMBERS and SIMPLE FRACTIONS. Student can:
	[K] N-1	Demonstrate 1-to-1 correspondence of whole numbers to 20.
	[K] N-2	Recognize and count whole numbers from 0-20.
	[K] N-3	Write and order whole numbers from 0-20.
	[K] N-4	Count whole numbers backwards from 10 to 0.
	[K] N-5	Identify ordinal position, first to tenth.
	[K] N-6	Divide an even-numbered set of concrete objects (up to 20) into halves.
	[K] N-7	Identify halves.
	[K] N-8	Identify full, half full, and empty containers.
	Understanding Operations	The student understands MATHEMATICAL OPERATIONS. Student can:
	[K] N-9	Recognize (+), (-), and (=) signs.
	[K] N-10	Use objects or pictures to model addition and subtraction of whole numbers.
	[K] N-11	Use number lines or objects related to real situations.
	Number Theory	The student understands NUMBER THEORY. Using manipulatives or models, student can:
[K] N-12	Demonstrate skip counting by 2's, 5's, and 10's with support.	
Measurement M 2.1	Measurable Attributes	The student understands MEASURABLE ATTRIBUTES. Student can:
	[K] MEA-1	Make comparisons between objects using concepts of big/little, long/short, large/small, more/less, same.
	[K] MEA-2	Identify coins by name: penny, nickel, dime, quarter.
	Measurement Techniques	The student understands MEASUREMENT TECHNIQUES. Student can:
	[K] MEA-3	Identify instruments used to measure length, time, and temperature.
	[K] MEA-4	Name in sequence the days of the week.
	[K] MEA-5	Tell time to the hour using analog and digital clocks.
Estimation & Computation M 3.1	Estimation	The student understands ESTIMATION. Student can:
	[K] E&C-1	Compare the number of objects in different sets using more, less, same.
	[K] E&C-2	Estimate of the number of objects in a given set as more or less than 10.
	Computation	The student understands COMPUTATION. Student can:
	[K] E&C-3	Add and subtract whole numbers up to ten using manipulatives.
Functions & Relationships M 4.1	Patterns & Functions	The student understands PATTERNS & FUNCTIONS. Student can:
	[K] F&R-1	Recognize patterns found in common objects, sounds, and movements.
	[K] F&R-2	Identify, sort and classify objects by attribute and identify objects that do not belong to a particular group.
	[K] F&R-3	Recognize, identify, and continue simple patterns of color, shape, or size.
	Equations/Inequalities	The student understands EQUATIONS & INEQUALITIES. Student can:
	[K] F&R-4	Add or subtract whole numbers to 10 using manipulatives to solve story problems.
	[K] F&R-5	Show more, less, or equal to using objects.
	Geometric Relationships	The student understands GEOMETRIC RELATIONSHIPS. Student can:
	[K] G-1	Sort and classify shapes according to similar attributes.
	[K] G-2	Describe objects using three attributes such as size, color, and shape.
	[K] G-3	Identify triangle, circle, rectangle, and square.
	Shapes	The student understands SIMILARITY, CONGRUENCE, SYMMETRY, & TRANSFORMATION OF SHAPES. Student can:

Geometry M 5.1	[K] G-4	Compare geometric shapes.
	Perimeter & Area	The student understands PERIMETER, AREA, VOLUME, & SURFACE AREA. Student can:
		(Not addressed at this grade level.)
	Position & Direction	The student understands POSITION & DIRECTION. Using manipulatives or models, student can:
	[K] G-5	Identify positions of objects that are above, below, before, after, next to, in the middle of, in front of, behind...
	Construction	The student understands GEOMETRIC DRAWINGS OR CONSTRUCTIONS. Student can:
[K] G-6	Draw, copy, or describe triangles, squares, rectangles, and circles.	
Statistics/ Probability M 6.1	Data Display	The student understands ORGANIZATION & CLASSIFICATION OF DATA. Student can:
	[K] S&P-1	Construct real graphs using concrete objects or pictographs with support.
	[K] S&P-2	Collect and record data with support.
	Analysis & Central Tend.	The student understands ANALYSIS & CENTRAL TENDANCY. Student can:
	[K] S&P-3	Describe information from real graphs or pictographs.
	Probability	The student understands PROBABILITY. Student can:
[K] S&P-4	Make simple predictions using events or repeated observations.	
Problem Solving M 7.1	Problems Solving	The student understands PROBLEM SOLVING STRATEGIES. Student can:
	[K] PS-1	Solve simple problems using concrete objects.
Communication M 8.1	Communication	The student COMMUNICATES MATHEMATICAL THINKING. Student can:
	[K] PS-2	Tell how objects were used to solve simple problems.
Reasoning M 9.1	Reasoning	The student uses LOGIC & REASONING to solve mathematical problems. Student can:
	[K] PS-3	Explain what makes sense.
	[K] PS-4	Draw pictures that support simple mathematical statements.
Connections M 10.1	Connections	The student CONNECTS & APPLIES MATHEMATICAL CONCEPTS. Student can:
	[K] PS-5	Understand and apply mathematical skills and processes in real-word context (i.e., self, friends, and family).