

<b>KINDERGARTEN GRADE MATH Number and Operations ACCOMPLISHMENTS</b>	<b>Taught</b>	<b>Tested</b>
<b><u>Content Standard 1.0</u> The students will develop number and operation sense needed to represent numbers and number relationships verbally and symbolically, and graphically and to compute fluently and make reasonable estimates in problem solving.</b>		
<b><i>K.1.1</i> Understand numbers, ways of representing numbers, relationships among numbers, number systems</b>		
a. count sets of objects up to 20		
b. count by ones and tens to 50		
c. count backward from 10 to 1		
d. match quantities up to twenty with numerals		
e. recognize equivalent sets of objects		
f. write numerals up to twenty		
g. represent quantities up to 20 on ten-frames		
h. determine whether a figure has been divided in halves		
i. name and identify coins and their values		
j. order numbers less than 20		
k. express the relationship between two numbers less than 20 using the words less than, more than, or equal to		
l. identify the position of a whole number less than 20 on the number line		
m. apply the language of ordinal numbers up to tenth		
<b><i>K.1.2</i> Understand meanings of operations and how they relate to one another</b>		
a. use manipulatives to develop strategies for addition and subtraction of whole numbers		
b. use a variety of strategies to solve simple verbal story problems involving numbers 0 to 10		
<b><i>K.1.3</i> Solve problems, compute fluently, and make reasonable estimates</b>		
a. use words, actions, pictures, or manipulatives to solve problems		
b. use pictures or objects, such as a ten frame, to show one more or one more less than any number to 20		
c. explain the reasonableness of a solution		
<b>KINDERGARTEN GRADE MATH Algebra ACCOMPLISHMENTS</b>	<b>Taught</b>	<b>Tested</b>
<b><u>Content Standard 2.0</u> The student will understand and generalize patterns as they represent and analyze quantitative relationships and change in a variety of contexts and problems using graphs, tables, and equations.</b>		
<b><i>K.2.1</i> Sort and classify objects by size, number, and other properties</b>		
a. sort objects by color, size, shape, and kind		
b. communicate using mathematical terms appropriately		
<b><i>K.2.2</i> Represent and analyze patterns and functions</b>		
a. identify patterns in the environment, in arrangements of objects, or in pictures		
b. recognize and extend a concrete, visual, or auditory two- or three-part repeating pattern		
c. create and describe a simple repeating pattern		
<b><i>K.2.3</i> Use concrete, pictorial, verbal representation to develop an understanding of the language and symbols of mathematics</b>		
a. use manipulatives or pictures to demonstrate addition and subtraction sentences written symbolically		

involving numbers 0 to 5		
b. read and explain simple addition and subtraction number sentences written symbolically		
<b><i>K.2.4</i> Illustrate general properties of operations</b>		
[no accomplishments for this learning expectation at the Kindergarten level]		
<b><i>K.2.5</i> Analyze change in various contexts.</b>		
[no accomplishments for this learning expectation at the Kindergarten level]		
<b>KINDERGARTEN GRADE MATH Geometry ACCOMPLISHMENTS</b>	<b>Taught</b>	<b>Tested</b>
<b><u>Content Standard 3.0</u> The student will develop an understanding of geometric concepts and relationships at the basis for geometric modeling and reasoning to solve problems involving one-, two-, and three-dimensional figures.</b>		
<b><i>K.3.1</i> Analyze characteristic and properties of geometric shapes.</b>		
a. recognize and name circles, squares, triangles, and rectangles when shown in various positions		
b. recognize examples of circles, squares, triangles, and rectangles in the environment and as faces of three-dimensional objects		
c. recognize basic properties of and similarities and differences between simple geometric figures (e.g., number of sides, corners)		
d. create circles, squares, rectangles, and triangles		
e. create structures using three-dimensional shapes		
f. combine two-dimensional shapes to make pictures		
<b><i>K.3.2</i> Specify locations and describe spatial relationships</b>		
a. uses directional terms in a variety of situations (e.g., over, under, forward, backward, between, right, left)		
<b><i>K.3.3</i> Recognize and apply flips, slides, and turns</b>		
[no accomplishments for this learning expectations at the first grade level]		
<b>KINDERGARTEN GRADE MATH Measurement ACCOMPLISHMENTS</b>	<b>Taught</b>	<b>Tested</b>
<b><u>Content Standard 4.0</u> The student will become familiar with the units and processes of measurement in order to use a variety of tools, techniques, and formula to determine and to estimate measurements in mathematical and real-world problems.</b>		
<b><i>K.4.1</i> Demonstrate understanding of units of measure and measurable attributes of objects</b>		
a. demonstrate understanding of the concept of length		
b. compare the length, weight, and capacity of two objects		
c. use words to describe time (e.g., day, night, morning, afternoon, yesterday, today, tomorrow)		

d. use words to describe temperature (e.g., hot, warm, cool, cold)		
<i>K.4.2 Apply appropriate techniques and tools to determine measurements</i>		
a. measure and estimate length using a variety of non-standard units		
b. distinguish between light and heavy objects		
c. tell time to the hour		
d. recognize a thermometer as a way of measuring temperature		
e. recognize a calendar is a way of measuring time		
<b>KINDERGARTEN GRADE MATH Data Analysis and Probability ACCOMPLISHMENTS</b>	<b>Taught</b>	<b>Tested</b>
<b><u>Content Standard 5.0 The student will understand and apply basic statistical and probability concepts as they organize, and analyze data, and to make predictions and conjectures.</u></b>		
<i>K.5.1 Develop, select, and use appropriate methods to collect, organize, display, and analyze data.</i>		
a. represent and compare data using concrete objects, pictures, and simple graphs		
<i>K.5.2 Apply the basic concepts of probability</i>		
a. describe events related to students' experiences as likely or unlikely		





