

CONTENT	KINDERGARTEN – GRADE 2		
<p>NUMBER AND OPERATIONS <i>Understand numbers, ways of representing number, relationships Among numbers, and number systems</i></p> <p><i>Understand meanings of operations and how they relate to one another</i></p> <p><i>Compute fluently and make reasonable estimates</i></p>	<ul style="list-style-type: none"> - All students will: - Count with understanding and recognize “how many” in sets of objects - Use multiple models to develop initial understandings of place value and the base-ten number system - Develop an understanding of the relative position and magnitude of whole numbers and of ordinal and cardinal numbers and their connections - Develop a sense of whole numbers and how to use them - Connect number words and numerals a to the quantities they represent - Understand and represent commonly used fractions such as $\frac{1}{4}^{\text{th}}$, $\frac{1}{3}^{\text{rd}}$, and $\frac{1}{2}$ - Understand addition and subtraction of whole numbers and the relationship between the two operations - Understand situations that require multiplication and division - Develop and use strategies for whole-number computations with a focus on addition and subtraction - 		
BENCHMARKS	KINDERGARTEN	GRADE 1	GRADE 2
<p>NUMBER AND OPERATIONS</p>	<ul style="list-style-type: none"> -# recognition 1 – 50 -Count by 1s, 2s, 5s,10s to 100 - Odd and even #s to 10 - Introduce add/subtract -Introduce fractions -Write #s to 50 -Understand concepts more, less, or equal in comparing amounts 	<ul style="list-style-type: none"> -# recognition 1-100 -Count by 3s to 100 -Count backwards by 2s,5s,10s from 100 -Identify odd and even #s to 100 -Addition facts to 10 -Begin subtraction -Estimation -Recognize $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{2}$, as divisions 	<ul style="list-style-type: none"> -Addition/subtraction - facts to 20 - triple digit #s with regrouping -three digit #s without Regrouping -Introduce multiplication -recognize place values to 1000

CONTENT	KINDERGARTEN – GRADE 2		
<p style="text-align: center;">ALGEBRA</p> <p><i>Understand patterns, relations, and functions</i></p> <p><i>Represent and analyze mathematical situations and structures using algebraic symbols</i></p> <p><i>Use mathematical models to represent and understand quantitative relationships</i></p>	<p>All students will:</p> <ul style="list-style-type: none"> - Sort, classify, and order objects by size, number, and other properties - Recognize, describe, and extend patterns such as sounds, shapes, or numbers - Analyze how patterns are generated - Illustrate general principles and properties of operations using specific numbers - Use concrete, pictorial, and verbal representations to develop an understanding of symbolic notations - Model situations that involve the addition and subtraction of whole numbers, using objects, pictures, and symbols - Describe qualitative change, such as growing taller 		
BENCHMARKS	KINDERGARTEN	GRADE 1	GRADE 2
<p style="text-align: center;">ALGEBRA</p>	<ul style="list-style-type: none"> -extend an ABCABC pattern -use correct symbols in an addition sentence -use correct symbols in a subtraction sentence -identify “next” number in a sequence -find the missing addend 	<ul style="list-style-type: none"> -illustrate the commutative Property. Ex. $1 + 2 = 3$ & $2 + 1 = 3$ -identify variables Ex. $() = 3 + 2$ or $3 + () = 5$ 	<ul style="list-style-type: none"> -count by 2’s, 3’s, 5s and 10’s to 100 -apply identification of variables to subtract -illustrate the associative property

CONTENT	KINDERGARTEN – GRADE 2		
<p style="text-align: center;">GEOMETRY</p> <p><i>Analyze characteristics and properties of two- and three- dimensional geometric shapes and develop mathematical arguments about geometric relationships</i></p> <p><i>Specify locations and describe spatial relationships using coordinate geometry and other representational systems</i></p> <p><i>Apply transformations and use symmetry to analyze mathematical situations</i></p> <p><i>Use visualization, spatial reasoning and geometric modeling to solve problems</i></p>	<p>All students will:</p> <ul style="list-style-type: none"> - Recognize, name, build, draw, compare and sort two- and three dimensional shapes - Describe attributes and parts of two- and three-dimensional shapes - Investigate and predict the results of putting together and taking apart two- and three-dimensional shapes - Describe, name, and interpret: <ul style="list-style-type: none"> - A. relative positions in space and apply ideas about relative position - B. direction and distance in navigating space - Find and name locations with simple relationships such as “near to” or on maps - Recognize and apply slides, flips and turns - Recognized and create shapes that have symmetry - Create mental images of shapes using spatial memory and spatial visualization - Relate ideas in geometry to ideas in number and measurement - Recognize geometric shapes and structures in the environment and specify location 		
BENCHMARKS	Kindergarten	Grade 1	Grade 2
GEOMETRY	<ul style="list-style-type: none"> -identify and describe a circle, triangle, square, rectangle, sphere, and cube -cone, cylinder -introduce symmetry 	<ul style="list-style-type: none"> -describe and compare shapes -Identify a line of symmetry in pictures and objects 	<ul style="list-style-type: none"> -identify and describe a three dimensional shape -extend understanding of lines of symmetry

CONTENT	KINDERGARTEN – GRADE 2		
<p style="text-align: center;">MEASUREMENT</p> <p><i>Understand measurable attributes of objects and the units, systems, and processes of measurement</i></p> <p><i>Apply appropriate techniques, tools, and formulas to determine measurements</i></p>	<p>All students will:</p> <ul style="list-style-type: none"> - Recognize the attributes of length, volume, weight, area, and time - Compare and order objects according to length, volume, weight, area, and time - Understand how to measure using nonstandard and standard units - Select an appropriate unit and tool for the attribute being measured - Develop common referents for measures to make comparisons and estimates 		
BENCHMARKS	KINDERGARTEN	GRADE 1	GRADE 2
MEASUREMENT	<ul style="list-style-type: none"> -measure with standard and non-standard units of length – e.g. 1” and centimeter manipulatives, Paperclips, thread, etc. -time to the ½ hour -identify coins and their values 	<ul style="list-style-type: none"> -describe and compare objects using above measures - use a ruler to measure -time to the quarter hour -conversion and make change 	<ul style="list-style-type: none"> -estimate to predict reasonable measurements -use a ruler to a ½” -time to five minutes --conversion and make change

CONTENT	KINDERGARTEN –GRADE 2		
<p>DATA ANALYSIS</p> <p><i>Formulate questions that can be addressed with data and collect organize and display relevant data to answer them</i></p> <p><i>Select and use appropriate statistical methods to analyze data</i></p> <p><i>Develop and evaluate inferences and predictions that are based on data</i></p> <p><i>Understand and apply basic concepts of probability</i></p>	<p>All students will:</p> <ul style="list-style-type: none"> - pose questions and gather data about themselves and their surroundings - sort and classify objects according to their attributes and organize data about the objects - represent data using concrete objects, pictures, and graphs - describe parts of the data and the set of data as a whole to determine what the data show - discuss events related to students’ experiences as likely or unlikely 		
BENCHMARKS	KINDERGARTEN	GRADE 1	GRADE 2
<p>DATA ANALYSIS</p>	<p>-create a graph using common data</p> <p>-Interpret info on a graph</p>	<p>-explain data orally and in writing</p> <p>-introduction to prediction</p>	<p>-introduction to graphing ordinals, bar and pictographs</p> <p>-introduce probability</p>