Number and Operations

Measurement

K	1	2	3	4	5	6	7	8
2.01 Compare	2.01 For given	2.01 Estimate and	2.01 Solve	2.01 Develop	2.01 Estimate the	2.01 Estimate and	2.01 Draw objects	2.01 Determine
attributes of two	objects:	measure using	problems using	strategies to	measure of an	measure length,	to scale and use	the effect on
objects using	a) Select an	appropriate units.	measurement	determine the area	object in one	perimeter, area,	scale drawings to	perimeter, area or
appropriate	attribute (length,	a) Length (meters,	concepts and	of rectangles and	system given the	angles, weight,	solve problems.	volume when one
vocabulary (color,	capacity, mass) to	centimeters, feet,	procedures	the perimeter of	measure of that	and mass of two-	2.02 Solve	or more
weight, height,	measure (use	inches, yards).	involving:	plane figures.	object in another	and three-	problems	dimensions of
width, length,	non-standard	b) Temperature	a) Elapsed time.	2.02 Solve	system.	dimensional	involving volume	two- and three-
texture).	units).	(Fahrenheit).	b) Equivalent	problems	2.02 Identify,	figures, using	and surface area	dimensional
2.02 Recognize	b) Develop	2.02 Tell time at	measures within	involving	estimate, and	appropriate tools.	of cylinders,	figures are
concepts of	strategies to	the five-minute	the same	perimeter of plane	measure the	2.02 Solve	prisms, and	changed.
calendar time	estimate size.	intervals.	measurement	figures and areas	angles of plane	problems	composite shapes.	2.02 Apply and
using appropriate	c) Compare, using		system.	of rectangles.	figures using	involving		use concepts of
vocabulary (days	appropriate		2.02 Estimate and		appropriate tools.	perimeter/		indirect
of the week,	language, with		measure using			circumference and		measurement.
months of the	respect to the		appropriate units.			area of plane		
year, seasons).	attribute selected.		a) Capacity (cups,			figures.		
	2.02 Develop an		pints, quarts,					
	understanding of		gallons, liters).					
	the concept of		b) Length (miles,					
	time.		kilometers)					
	a) Tell time at the		c) Mass (ounces,					
	hour and half-		pounds, grams,					
	hour.		kilograms).					
	b) Solve problems		d) Temperature					
	involving		(Fahrenheit,					
	applications of		Celsius).					
	time (clock and							
	calendar).							

Geometry

Geometry								
K	1	2	3	4	5	6	7	8
3.01 Identify,	3.01 Identify,	3.01 Combine	3.01 Use	3.01 Use the	3.01 Identify,	3.01 Identify and	3.01 Using three-	3.01 Represent
build, draw, and	build, draw and	simple figures to	appropriate	coordinate system	define, describe,	describe the	dimensional	problem situations
name triangles,	name	create a given	vocabulary to	to describe the	and accurately	intersection of	figures:	with geometric
rectangles, and	parallelograms,	shape.	compare,	location and	represent triangles,	figures in a plane.	a) Identify,	models.
circles; identify,	squares,	3.02 Describe the	describe, and	relative position	quadrilaterals, and other polygons.	3.02 Identify the	describe, and	3.02 Apply
build, and name	trapezoids, and	change in	classify two- and	of points and	3.02 Make and test	radius, diameter,	draw from various	geometric
spheres and	hexagons.	attributes as two-	three-dimensional	draw figures in	conjectures about	chord, center, and	views (top, side,	properties and
cubes.	3.02 Identify,	and three-	figures.	the first quadrant.	polygons involving:	circumference of	front, corner).	relationships,
3.02 Compare	build, and name	dimensional	3.02 Use a	3.02 Describe the	a) Sum of the	a circle; determine	b) Build from	including the
geometric shapes	cylinders, cones,	figures are cut and	rectangular	relative position	measures of interior	the relationships	various views.	Pythagorean
(identify	and rectangular	rearranged.	coordinate system	of lines using	angles.	among them.	c) Describe cross-	theorem, to solve
likenesses and	prisms.	3.03 Identify and	to solve problems.	concepts of	b) Lengths of sides	3.03 Transform	sectional views.	problems.
differences).	3.03 Compare and	make:	a) Graph and	parallelism and	and diagonals.	figures in the	3.02 Identify,	3.03 Identify,
3.03 Model and	contrast geometric	a) Symmetric	identify points	perpendicularity.	c) Parallelism and perpendicularity of	coordinate plane	define, and	predict, and
use directional	figures.	figures.	with whole	3.03 Identify,	sides and diagonals.	and describe the	describe similar	describe dilations
and positional	3.04 Solve	b) Congruent	number and/or	predict, and	3.03 Classify plane	transformation.	and congruent	in the coordinate
vocabulary.	problems	figures.	letter coordinates.	describe the	figures according to	3.04 Solve	polygons with	plane.
3.04 Complete	involving spatial		b) Describe the	results of	types of symmetry	problems	respect to angle	
simple spatial	visualization.		path between	transformations of	(line, rotational).	involving	measures, length	
visualization tasks			given points on	plane figures.	3.04 Solve	geometric figures	of sides, and	
and puzzles.			the plane.	a) Reflections.	problems involving	in the coordinate	proportionality of	
				b) Translations.	the properties of	plane.	sides.	
				c) Rotations.	triangles, quadrilaterals, and		3.03 Use scaling	
					other polygons.		and proportional	
					a) Sum of the		reasoning to solve	
					measures of interior		problems related	
					angles.		to similar and	
					b) Lengths of sides		congruent	
					and diagonals.		polygons.	
					c) Parallelism and			
					perpendicularity of			
					sides and diagonals.			

Data Analysis and Probability

2 ata many sis and	Probability							
K	1	2	3	4	5	6	7	8
4.01 Collect and organize data as a group activity. 4.02 Display and describe data with concrete and pictorial graphs as a group activity.	4.01 Collect, organize, describe and display data using line plots and tallies. 4.02 Describe events as certain, impossible, more likely or less likely to occur.	4.01 Collect, organize, describe and display data using Venn diagrams (three sets) and pictographs where symbols represent multiple units (2's, 5's, 10's). 4.02 Conduct simple probability experiments; describe the results and make predictions.	4.01 Collect, organize, analyze, and display data (including circle graphs and tables) to solve problems. 4.02 Determine the number of permutations and combinations of up to three items. 4.03 Solve probability problems using permutations and combinations.	4.01 Collect, organize, analyze, and display data (including line graphs and bar graphs) to solve problems. 4.02 Describe the distribution of data using median, range and mode. 4.03 Solve problems by comparing two sets of related data. 4.04 Design experiments and list all possible outcomes and probabilities for an event.	4.01 Collect, organize, analyze, and display data (including stemand-leaf plots) to solve problems. 4.02 Compare and contrast different representations of the same data; discuss the effectiveness of each representation. 4.03 Solve problems with data from a single set or multiple sets of data using median, range, and mode.	4.01 Develop fluency with counting strategies to determine the sample space for an event. Include lists, tree diagrams, frequency distribution tables, permutations, combinations, and the Fundamental Counting Principle. 4.02 Use a sample space to determine the probability of an event. 4.03 Conduct experiments involving simple and compound events. 4.04 Determine and compare experimental and theoretical probabilities for simple and compound events. 4.05 Determine and compare experimental and theoretical probabilities for simple and compare experimental and theoretical probabilities for independent and dependent events. 4.06 Design and conduct experiments or surveys to solve problems; report and analyze results.	4.01 Collect, organize, analyze, and display data (including box plots and histograms) to solve problems. 4.02 Calculate, use, and interpret the mean, median, mode, range, frequency distribution, and inter-quartile range for a set of data. 4.03 Describe how the mean, median, mode, range, frequency distribution, and inter-quartile range of a set of data affect its graph. 4.04 Identify outliers and determine their effect on the mean, median, mode, and range of a set of data. 4.05 Solve problems involving two or more sets of data using appropriate statistical measures.	4.01 Collect, organize, analyze, and display data (including scatterplots) to solve problems. 4.02 Approximate a line of best fit for a given scatterplot; explain the meaning of the line as it relates to the problem and make predictions. 4.03 Identify misuses of statistical and numerical data.

Algebra

Algebra								
K	1	2	3	4	5	6	7	8
5.01 Sort and	5.01 Sort and	5.01 Identify,	5.01 Describe and	5.01 Identify,	5.01 Describe,	5.01 Simplify	5.01 Identify,	5.01 Develop an
classify objects	classify objects	describe, translate,	extend numeric	describe, and	extend, and	algebraic	analyze, and	understanding of function.
by one attribute.	by two attributes.	and extend	and geometric	generalize	generalize	expressions and	create linear	a) Translate among
5.02 Create and	5.02 Use Venn	repeating and	patterns.	relationships in	numeric and	verify the results	relations,	verbal, tabular, graphic,
extend patterns	diagrams to	growing patterns.	5.02 Extend and	which:	geometric	using the basic	sequences, and	and algebraic
with actions,	illustrate	5.02 Write	find missing	a) Quantities	patterns using	properties of	functions using	representations of
words, and	similarities and	addition and	terms of repeating	change	tables, graphs,	rational numbers.	symbols, graphs,	functions.
objects.	differences in two	subtraction	and growing	proportionally.	words, and	a) Identity.	tables, diagrams,	b) Identify relations and functions as linear or
	sets.	number sentences	patterns.	b) Change in one	symbols.	b) Commutative.	and written	nonlinear.
	5.03 Create and	to represent a	5.03 Use symbols	quantity relates to	5.02 Use	c) Associative.	descriptions.	c) Find, identify, and
	extend patterns,	problem; use	to represent	change in a	algebraic	d) Distributive.	5.02 Translate	interpret the slope (rate of
	identify the	symbols to	unknown	second quantity.	expressions,	e) Order of	among different	change) and intercepts of
	pattern unit, and	represent unknown	quantities in	5.02 Translate	patterns, and one-	operations.	representations of	a linear relation. d) Interpret and compare
	translate into	quantities.	number	among symbolic,	step equations	5.02 Use and	algebraic	properties of linear
	other forms.		sentences.	numeric, verbal,	and inequalities to	evaluate algebraic	expressions,	functions from tables,
			5.04 Find the	and pictorial	solve problems.	expressions.	equations and	graphs, or equations.
			value of the	representations of	5.03 Identify,	5.03 Solve simple	inequalities.	5.02 Write an equation of
			unknown in a	number	describe, and	(one- and two-	5.03 Use and	a linear relationship given: two points, the
			number sentence.	relationships.	analyze situations	step) equations or	evaluate algebraic	slope and one point on
				5.03 Verify	with constant or	inequalities.	expressions,	the line, or the slope and
				mathematical	varying rates of	5.04 Use graphs,	linear equations	y-intercept.
				relationships	change.	tables, and	or inequalities to	5.03 Solve problems
				using:	_	symbols to model	solve problems.	using linear equations and inequalities; justify
				a) Models, words,		and solve	5.04 Develop	symbolically and
				and numbers.		problems	fluency in the use	graphically.
				b) Order of		involving rates of	of formulas to	5.04 Solve equations
				operations and the		change and ratios.	solve problems.	using the inverse
				identity,			_	relationships of addition and subtraction,
				commutative,				multiplication and
				associative, and				division, squares and
				distributive				square roots, and cubes
				properties.				and cube roots.