

Introduction to the Revised Mathematics TEKS

VERTICAL ALIGNMENT CHART KINDERGARTEN - GRADE 6



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Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
(1) Mathematical pr	rocess standards. The	student uses mathematica	Il processes to acquire and	I demonstrate mathemat	ical understanding. The s	tudent is expected to:
(A) apply mathemat	tics to problems arising	g in everyday life, society,	and the workplace.			
	_	orporates analyzing given in conableness of the solution	_	plan or strategy, determi	ining a solution, justifying	g the solution, and evaluating
(C) select tools, inclusense as appropriate	= -	nipulatives, paper and per	ncil, and technology as app	propriate, and techniques	, including mental math,	estimation, and number
(D) communicate m	nathematical ideas, rea	soning, and their implicat	ions using multiple repres	entations, including symb	ools, diagrams, graphs, an	d language as appropriate.
(E) create and use re	epresentations to orga	anize, record, and commu	nicate mathematical ideas			
(F) analyze mathem	natical relationships to	connect and communicate	e mathematical ideas.			
(G) display, explain,	and justify mathemat	ical ideas and arguments ι	using precise mathematica	ıl language in written or c	oral communication.	

Kindergarten	Grade 1	Grade 2
	and Recognizing Whole	
(2) Number and operations.	(2) Number and operations.	(2) Number and operations.
The student applies	The student applies	The student applies
mathematical process	mathematical process	mathematical process
standards to understand	standards to represent and	standards to understand
how to represent and	compare whole numbers,	how to represent and
compare whole numbers, the relative position and	the relative position and magnitude of whole	compare whole numbers, the relative position and
magnitude of whole	numbers, and relationships	magnitude of whole
numbers, and relationships	within the numeration	numbers, and relationships
within the numeration	system related to place	within the numeration
system. The student is	value. The student is	system related to place
expected to:	expected to:	value. The student is
Language Co.	expected to:	expected to:
(A) count forward and		
backward to at least 20 with		
and without objects.		///////////////////////////////////////
(B) read, write, and	///////////////////////////////////////	
represent whole numbers		
from 0 to at least 20 with		
and without objects or		
pictures.		
(C) count a set of objects up		///////////////////////////////////////
to at least 20 and		
demonstrate that the last		
number said tells the		///////////////////////////////////////
number of objects in the set regardless of their		
arrangement or order.		
(D) recognize instantly the		
quantity of a small group of	(A) recognize instantly the	
objects in organized and	quantity of structured	
random arrangements.	arrangements.	
(E) generate a set		
using concrete and pictorial		
models that represents a		
number that is more than,		
less than, and equal to a		
given number up to 20.	///////////////////////////////////////	///////////////////////////////////////
(F) generate a number that	(D) generate a number that	(C) generate a number that
is one more than or one less	is greater than or less than a	is greater than or less than a
than another number up to	given whole number up to	given whole number up to
at least 20.	120.	1,200.

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
		Com	paring and Ordering Nun	nbers		
(2) Number and operations. The student applies mathematical process standards to understand how to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system. The student is expected to:	(2) Number and operations. The student applies mathematical process standards to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system related to place value. The student is expected to:	(2) Number and operations. The student applies mathematical process standards to understand how to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system related to place value. The student is expected to:	(2) Number and operations. The student applies mathematical process standards to represent and compare whole numbers and understand relationships related to place value. The student is expected to:	(2) Number and operations. The student applies mathematical process standards to represent, compare, and order whole numbers and decimals and understand relationships related to place value. The student is expected to:	(2) Number and operations. The student applies mathematical process standards to represent, compare, and order positive rational numbers and understand relationships as related to place value. The student is expected to:	(2) Number and operations. The student applies mathematical process standards to represent and use rational numbers in a variety of forms. The student is expected to:
(G) compare sets of objects up to at least 20 in each set using comparative language. (H) use comparative language to describe two numbers up to 20 presented as written numerals.	(E) use place value to compare whole numbers up to 120 using comparative language.	(D) use place value to compare and order whole numbers up to 1,200 using	(D) compare and order whole numbers up to 100,000 and represent	(C) compare and order whole numbers to 1,000,000,000 and		
	(F) order whole numbers up to 120 using place value and open number lines.	comparative language, numbers, and symbols (>, <, or =).	comparisons using the symbols >, <, or =.	represent comparisons using the symbols >, <, or =.	(B) compare and order two decimals to thousandths and represent comparisons using the symbols >, <, or =.	(D) order a set of rational numbers arising from mathematical and real- world contexts.
	(G) represent the comparison of two numbers to 100 using the symbols >, <, or =.					
				(F) compare and order decimals using concrete and visual models to the hundredths.		

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
		Rep	presenting and Relating N	lumbers Using Number L	ines	
	(2) Number and operations. The student applies mathematical process standards to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system related to place value. The student is expected to:	(2) Number and operations. The student applies mathematical process standards to understand how to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system related to place value. The student is expected to:	(2) Number and operations. The student applies mathematical process standards to represent and compare whole numbers and understand relationships related to place value. The student is expected to:	(2) Number and operations. The student applies mathematical process standards to represent, compare, and order whole numbers and decimals and understand relationships related to place value. The student is expected to:		(2) Number and operations. The student applies mathematical process standards to represent and use rational numbers in a variety of forms. The student is expected to:
	(F) order whole numbers up to 120 using place value and open number lines.	(E) locate the position of a given whole number on an open number line.	(C) represent a number on a number line as being between two consecutive multiples of 10; 100; 1,000; or 10,000 and use words to describe relative size of numbers in order to round whole numbers.	(H) determine the corresponding decimal to the tenths or hundredths place of a specified point on a number line.		
			(3) Number and operations. The student applies mathematical process standards to represent and explain fractional units. The student is expected to: (A) represent fractions greater than zero and less than or equal to one with denominators of 2, 3, 4, 6, and 8 using concrete objects and pictorial models, including strip diagrams and number lines.	(G) represent fractions and decimals to the tenths or hundredths as distances from zero on a number line.		(B) identify a number, its opposite, and its absolute value.
		(F) name the whole number that corresponds to a specific point on a number line.	(B) determine the corresponding fraction greater than zero and less than or equal to one with denominators of 2, 3, 4, 6, and 8 given a specified point on a number line.			(C) locate, compare, and order integers and rational numbers using a number line.
						Representing and Classifying Numbers (2) Number and operations. The student applies mathematical process standards to represent and use rational numbers in a variety of forms. The student is expected to: (A) classify whole numbers, integers, and rational numbers using a visual representation such as a Venn diagram to describe relationships between sets of numbers.

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
		Composing ar	nd Decomposing Number	s: Place Value		
(2) Number and operations. The student applies mathematical process standards to understand how to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system. The student is expected to:	(2) Number and operations. The student applies mathematical process standards to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system related to place value. The student is expected to:	(2) Number and operations. The student applies mathematical process standards to understand how to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system related to place value. The student is expected to:	(2) Number and operations. The student applies mathematical process standards to represent and compare whole numbers and understand relationships related to place value. The student is expected to:	(2) Number and operations. The student applies mathematical process standards to represent, compare, and order whole numbers and decimals and understand relationships related to place value. The student is expected to:	(2) Number and operations. The student applies mathematical process standards to represent, compare, and order positive rational numbers and understand relationships as related to place value. The student is expected to:	
(I) compose and decompose numbers up to 10 with objects and pictures.	(B) use concrete and pictorial models to compose and decompose numbers up to 120 in more than one way as so many hundreds, so many tens, and so many ones.	(A) use concrete and pictorial models to compose and decompose numbers up to 1,200 in more than one way as a sum of so many thousands, hundreds, tens, and ones.	(A) compose and decompose numbers up to 100,000 as a sum of so many ten thousands, so many thousands, so many hundreds, so many tens,			
	(C) use objects, pictures, and expanded and standard forms to represent numbers up to 120.	(B) use standard, word, and expanded forms to represent numbers up to 1,200.	and so many ones using objects, pictorial models, and numbers, including expanded notation as appropriate.	(B) represent the value of the digit in whole numbers through 1,000,000,000 and decimals to the hundredths using expanded notation and numerals.		
			(B) describe the mathematical relationships found in the base-10 place value system through the hundred thousands place.	(A) interpret the value of each place-value position as 10 times the position to the right and as one-tenth of the value of the place to its left.	(A) represent the value of the digit in decimals through the thousandths using expanded notation and numerals.	
				(E) represent decimals, including tenths and hundredths, using concrete and visual models and money.		

Kindergarten Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
		Rep	presenting Fraction Conce	epts	
	(3) Number and operations. The student applies mathematical process standards to recognize and represent fractional units and communicates how they are used to name parts of a whole. The student is expected to:	(3) Number and operations. The student applies mathematical process standards to represent and explain fractional units. The student is expected to:	(3) Number and operations. The student applies mathematical process standards to represent and generate fractions to solve problems. The student is expected to:		(2) Number and operations. The student applies mathematical process standards to represent and use rational numbers in a variety of forms. The student is expected to:
	(A) partition objects into equal parts and name the parts, including halves, fourths, and eighths, using words. (D) identify examples and non-examples of halves, fourths, and eighths.	(A) represent fractions greater than zero and less than or equal to one with denominators of 2, 3, 4, 6, and 8 using concrete objects and pictorial models, including strip diagrams and number lines.			
	(C) use concrete models to count fractional parts beyond one whole using words and recognize how many parts it takes to equal one whole.	(E) solve problems involving partitioning an object or a set of objects among two or more recipients using pictorial representations of fractions with denominators of 2, 3, 4, 6, and 8.			
	(B) explain that the more fractional parts used to make a whole, the smaller the part. the fewer the fractional parts, the larger the part.	(C) explain that the unit fraction 1/b represents the quantity formed by one part of a whole that has been partitioned into b equal parts where b is a non-zero whole number.			
		(D) compose and decompose a fraction <i>a/b</i> with a numerator greater than zero and less than or equal to <i>b</i> as a sum of parts 1/ <i>b</i> .	(A) represent a fraction a/b as a sum of fractions 1/b, where a and b are whole numbers and b > 0, including when a > b. (B) decompose a fraction in more than one way into a sum of fractions with the same denominator using concrete and pictorial models and recording results with symbolic representations.		(E) extend representations for division to include fraction notation such as a/b represents the same number as $a \div b$ where $b \ne 0$.
Kindergarten Grade 1	Grade 2	Grade 3	(G) represent fractions and decimals to the tenths or hundredths as distances from zero on a number line. Grade 4	Grade 5	Grade 6

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
			Determini	ng Equivalence and Con	nparing Part-to-Whole Re	lationships
			(3) Number and operations. The student applies mathematical process standards to represent and explain fractional units. The student is expected to:	(3) Number and operations. The student applies mathematical process standards to represent and generate fractions to solve problems. The student is expected to:		(5) Proportionality. The student applies mathematical process standards to solve problems involving proportional relationships. The student is expected to:
			(F) represent equivalent fractions with denominators of 2, 3, 4, 6, and 8 using a variety of objects and pictorial models, including number lines.			
			(G) explain that two fractions are equivalent if and only if they are both represented by the same point on the number line or represent the same portion of a same size whole for an area model.	(C) determine if two given fractions are equivalent using a variety of methods.		
			(H) compare two fractions having the same numerator or denominator in problems by reasoning about their sizes and justifying the conclusion using symbols, words, objects, and pictorial models.	(D) compare two fractions with different numerators and different denominators and represent the comparison using the symbols >, =, or <.		(C) use equivalent fractions, decimals, and percents to show equal parts of the same whole.
				(2) Number and operations. The student applies mathematical process standards to represent, compare, and order whole numbers and decimals and understand relationships related to place value. The student is expected to:		
				(G) relate decimals to fractions that name tenths and hundredths.		

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
				ls, and Rational Numbers		
(3) Number and operations. The student applies mathematical process standards to develop an understanding of addition and subtraction situations in order to solve problems. The student is expected to:	(3) Number and operations. The student applies mathematical process standards to develop and use strategies for whole number addition and subtraction computations in order to solve problems. The student is expected to:	(4) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for whole number computations in order to solve addition and subtraction problems with efficiency and accuracy. The student is expected to:	(4) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for whole number computations in order to solve problems with efficiency and accuracy. The student is expected to:	(4) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for whole number computations and decimal sums and differences in order to solve problems with efficiency and accuracy. The student is expected to:	(3) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for positive rational number computations in order to solve problems with efficiency and accuracy. The student is expected to:	
(A) model the action of joining to represent addition and the action of separating to represent subtraction. (B) solve word problems	(B) use objects and pictorial models to solve word problems involving joining, separating, and comparing sets within 20 and unknowns as any one of the terms in the problem such as 2 + 4 = []; 3 + [] = 7; and 5 = [] - 3.					
using objects and drawings to find sums up to 10 and differences within 10.	(C) compose 10 with two or more addends with and without concrete objects.					
(C) explain the strategies used to solve problems involving adding and subtracting within 10 using spoken words, concrete and pictorial models, and number sentences.	(E) explain strategies used to solve addition and subtraction problems up to 20 using spoken words, objects, pictorial models, and number sentences.	(B) add up to four two-digit numbers and subtract two- digit numbers using mental strategies and algorithms based on knowledge of place value and properties of operations.	(A) solve with fluency one- step and two-step problems involving addition and subtraction within 1,000 using strategies based on place	(A) add and subtract whole numbers and decimals to the hundredths place using the standard algorithm.	(A) estimate to determine solutions to mathematical and real-world problems involving addition, subtraction,	
	(A) use concrete and pictorial models to determine the sum of a multiple of 10 and a one-digit number in problems up to 99.	(C) solve one-step and multi- step word problems involving addition and subtraction within 1,000 using a variety of strategies based on place value, including algorithms.	value, properties of operations, and the relationship between addition and subtraction.		multiplication, or division.	
	(D) apply basic fact strategies to add and subtract within 20, including making 10 and decomposing a number leading to a 10.	(A) recall basic facts to add and subtract within 20 with automaticity.				
	(F) generate and solve problem situations when given a number sentence involving addition or subtraction of numbers within 20.	(D) generate and solve problem situations for a given mathematical number sentence involving addition and subtraction of whole numbers within 1,000.				

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
				Adding and Sub (3) Number and operations. The student applies mathematical process standards to represent and generate fractions to solve problems. The student is expected to:	(3) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for positive rational number computations in order to solve problems with efficiency and accuracy. The student is expected to:	ational Numbers
				(E) represent and solve addition and subtraction of fractions with equal denominators using objects and pictorial models that build to the number line and properties of operations.	(H) represent and solve addition and subtraction of fractions with unequal denominators referring to the same whole using objects and pictorial models and properties of operations.	
				(F) evaluate the reasonableness of sums and differences of fractions using benchmark fractions 0, 1/4, 1/2, 3/4, and 1, referring to the same whole.	(K) add and subtract positive rational numbers fluently.	

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
			(4) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for whole number computations in order to solve problems	ying Strategies for Estima (2) Number and operations. The student applies mathematical process standards to represent, compare, and order whole numbers and decimals and understand relationships	(2) Number and operations. The student applies mathematical process standards to represent, compare, and order positive rational numbers and understand relationships as	
			with efficiency and accuracy. The student is expected to: (B) round to the nearest 10 or 100 or use compatible numbers to estimate solutions to addition and subtraction problems.	related to place value. The student is expected to: (D) round whole numbers to a given place value through the hundred thousands place. (4) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for whole number computations and decimal sums and differences in order to solve problems with efficiency and accuracy. The student is expected to: (G) round to the nearest 10, 100, or 1,000 or use compatible numbers to estimate solutions involving	related to place value. The student is expected to: (C) round decimals to tenths or hundredths.	
Reg (4) Number and operations. The student applies mathematical process standards to identify coins in order to recognize the need for monetary transactions. The student is expected to:	presenting and Determin (4) Number and operations. The student applies mathematical process standards to identify coins, their values, and the relationships among them in order to recognize the need for monetary transactions. The student is expected to: (A) identify U.S. coins,	ing Values of Coins and E (5) Number and operations. The student applies mathematical process standards to determine the value of coins in order to solve monetary transactions. The student is expected to:	(4) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for whole number computations in order to solve problems with efficiency and accuracy. The student is expected to:	whole numbers.		
(A) identify U.S. coins by name, including pennies, nickels, dimes, and quarters.	including pennies, nickels, dimes, and quarters, by value and describe the relationships among them. (B) write a number with the cent symbol to describe the value of a coin. (C) use relationships to count	(B) use the cent symbol, dollar sign, and the decimal point to name the value of a collection of coins.				
	by twos, fives, and tens to determine the value of a collection of pennies, nickels, and/or dimes.	(A) determine the value of a collection of coins up to one dollar.	(C) determine the value of a collection of coins and bills.			

Kindergarten Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
	(6) Number and operations. The student applies mathematical process standards to connect repeated addition and subtraction to multiplication and division situations that involve equal groupings and shares. The student is expected to:	Multiplying Whole Num (4) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for whole number computations in order to solve problems with efficiency and accuracy. The student is expected to:	(4) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for whole number computations and decimal sums and differences in order to solve problems with efficiency and accuracy. The student is expected to:	(3) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for positive rational number computations in order to solve problems with efficiency and accuracy. The student is expected to:	(3) Number and operations. The student applies mathematical process standards to represent addition, subtraction, multiplication, and division while solving problems and justifying solutions. The student is expected to:
	(A) model, create, and describe contextual multiplication situations in which equivalent sets of concrete objects are joined.	(D) determine the total number of objects when equally-sized groups of objects are combined or arranged in arrays up to 10 by 10. (E) represent multiplication facts by using a variety of approaches such as repeated addition, equal-sized groups, arrays, area models, equal jumps on a number line, and skip counting. (F) recall facts to multiply up to 10 by 10 with automaticity and recall the corresponding division facts.	(B) determine products of a number and 10 or 100 using properties of operations and place value understandings.		
		(G) use strategies and algorithms, including the standard algorithm, to multiply a two-digit number by a one-digit number. Strategies may include mental math, partial products, and the commutative, associative, and distributive properties.	(C) represent the product of 2 two-digit numbers using arrays, area models, or equations, including perfect squares through 15 by 15. (D) use strategies and algorithms, including the standard algorithm, to multiply up to a four-digit number by a one-digit number and to multiply a two-digit number. Strategies may include mental math, partial products, and the commutative, associative, and distributive properties.	(B) multiply with fluency a three-digit number by a two-digit number using the standard algorithm.	(E) multiply and divide positive rational numbers fluently.

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
	TT m st re	5) Number and operations. he student applies nathematical process andards to connect epeated addition and abtraction to multiplication and division situations that avolve equal groupings and nares. The student is expected to:	Multiplying Whole Num (4) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for whole number computations in order to solve problems with efficiency and accuracy. The student is expected to:	bers, Decimals, Fractions (4) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for whole number computations and decimal sums and differences in order to solve problems with efficiency and accuracy. The student is expected to:	, and Rational Numbers (3) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for positive rational number computations in order to solve problems with efficiency and accuracy. The student is expected to:	(3) Number and operations. The student applies mathematical process standards to represent addition, subtraction, multiplication, and division while solving problems and justifying solutions. The student is expected to:
				(H) solve with fluency one- and two-step problems involving multiplication and division, including interpreting remainders.	(B) multiply with fluency a three-digit number by a two-digit number using the standard algorithm. (D) represent multiplication of decimals with products to	
					the hundredths using objects and pictorial models, including area models. (E) solve for products of decimals to the hundredths,	(E) multiply and divide positive rational numbers
					including situations involving money, using strategies based on place-value understandings, properties of operations, and the relationship to the multiplication of whole numbers.	fluently.
					(I) represent and solve multiplication of a whole number and a fraction that refers to the same whole using objects and pictorial models, including area models.	
						(B) determine, with and without computation, whether a quantity is increased or decreased when multiplied by a fraction, including values greater than or less than one.

Kindergarten	Grade 1	Grade 2	Grade 3 Dividing Whole Numb	Grade 4 ers, Decimals, Fractions,	Grade 5 and Rational Numbers	Grade 6
		(6) Number and operations. The student applies mathematical process standards to connect repeated addition and subtraction to multiplication and division situations that involve equal groupings and shares. The student is expected to:	(4) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for whole number computations in order to solve problems with efficiency and accuracy. The student is expected to:	(4) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for whole number computations and decimal sums and differences in order to solve problems with efficiency and accuracy. The student is expected to:	(3) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for positive rational number computations in order to solve problems with efficiency and accuracy. The student is expected to:	(3) Number and operations. The student applies mathematical process standards to represent addition, subtraction, multiplication, and division while solving problems and justifying solutions. The student is expected to:
		(B) model, create, and describe contextual division situations in which a set of concrete objects is separated into equivalent sets.	 (H) determine the number of objects in each group when a set of objects is partitioned into equal shares or a set of objects is shared equally. (I) determine if a number is even or odd using divisibility rules. (J) determine a quotient using the relationship between multiplication and division. 			(A) recognize that dividing by a rational number and multiplying by its reciprocal result in equivalent values.
			(K) solve one-step and two- step problems involving multiplication and division within 100 using strategies based on objects; pictorial models, including arrays, area models, and equal groups; properties of operations; or recall of facts.	(E) represent the quotient of up to a four-digit whole number divided by a one-digit whole number using arrays, area models, or equations.	(C) solve with proficiency for quotients of up to a	(E) multiply and divide
				(F) use strategies and algorithms, including the standard algorithm, to divide up to a four-digit dividend by a one-digit divisor.	four-digit dividend by a two- digit divisor using strategies and the standard algorithm.	positive rational numbers fluently.
				(H) solve with fluency one- and two-step problems involving multiplication and division, including interpreting remainders.		

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
			Dividing Whole Numb	ers, Decimals, Fractions,	and Rational Numbers	
		(6) Number and operations. The student applies mathematical process standards to connect repeated addition and subtraction to multiplication and division situations that involve equal groupings and shares. The student is expected to:	(4) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for whole number computations in order to solve problems with efficiency and accuracy. The student is expected to:	(4) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for whole number computations and decimal sums and differences in order to solve problems with efficiency and accuracy. The student is	(3) Number and operations. The student applies mathematical process standards to develop and use strategies and methods for positive rational number computations in order to solve problems with efficiency and accuracy. The student is expected to:	(3) Number and operations. The student applies mathematical process standards to represent addition, subtraction, multiplication, and division while solving problems and justifying solutions. The student is expected to:
				expected to:	(F) represent quotients of decimals to the hundredths, up to four-digit dividends and two-digit whole number divisors, using objects and pictorial models, including area models. (G) solve for quotients of decimals to the hundredths, up to four-digit dividends and two-digit whole number divisors, using strategies and algorithms, including the standard algorithm. (J) represent division of a unit fraction by a whole number and the division of a whole number by a unit fraction such as 1/3 ÷ 7 and 7 ÷ 1/3 using objects and pictorial models, including area models. (L) divide whole numbers by unit fractions by whole numbers.	(E) multiply and divide positive rational numbers fluently.

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
						Applying Operations
						with Integers and
	///////////////////////////////////////		///////////////////////////////////////	///////////////////////////////////////		Rational Numbers
<i>\////////////////////////////////////</i>					///////////////////////////////////////	(3) Number and operations.
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////		The student applies
	///////////////////////////////////////	///////////////////////////////////////		<i>/////////////////////////////////////</i>		mathematical process
		///////////////////////////////////////		//////////////////////////////////////	///////////////////////////////////////	standards to represent
			///////////////////////////////////////		///////////////////////////////////////	addition, subtraction,
		///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////		multiplication, and division
		///////////////////////////////////////		//////////////////////////////////////	///////////////////////////////////////	while solving problems and
					///////////////////////////////////////	justifying solutions. The
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////		student is expected to:
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>						(C) represent integer
<i>*////////////////////////////////////</i>					///////////////////////////////////////	operations with concrete
		///////////////////////////////////////				models and connect the
				<i>'''''</i>		actions with the models to
						standardized algorithms.
						(D) add, subtract, multiply,
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	///////////////////////////////////////		///////////////////////////////////////	///////////////////////////////////////		and divide integers fluently.
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>		///////////////////////////////////////		7//////////////////////////////////////	///////////////////////////////////////	(E) multiply and divide
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>			///////////////////////////////////////	///////////////////////////////////////		positive rational numbers
	///////////////////////////////////////	//////////////////////////////////////	///////////////////////////////////////	<u>/////////////////////////////////////</u>	//////////////////////////////////////	fluently.

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
(5) Algebraic reasoning. The student applies mathematical process standards to identify the pattern in the number word list. The student is expected to:	ting and Reciting (5) Algebraic reasoning. The student applies mathematical process standards to identify and apply number patterns within properties of numbers and operations in order to describe relationships. The student is					
(A) recite numbers up to at least 100 by ones and tens beginning with any given number.	expected to: (A) recite numbers forward and backward from any given number between 1 and 120.					
///////////////////////////////////////		Conn	ecting Counting and Divis	ibility		(/////////////////////////////////////
	(5) Algebraic reasoning. The student applies mathematical process standards to identify and apply number patterns within properties of numbers and operations in order to describe relationships. The student is expected to:	(7) Algebraic reasoning. The student applies mathematical process standards to identify and apply number patterns within properties of numbers and operations in order to describe relationships. The student is expected to:			(4) Algebraic reasoning. The student applies mathematical process standards to develop concepts of expressions and equations. The student is expected to:	
	(B) skip count by twos, fives, and tens to determine the total number of objects up to 120 in a set.	(A) determine whether a number up to 40 is even or odd using pairings of objects to represent the number.			(A) identify prime and composite numbers.	
	'	ng and Place Value (7) Algebraic reasoning. The student applies mathematical process standards to identify and apply number patterns within properties of numbers and operations in order to describe relationships. The student is expected to: (B) use an understanding of place value to determine the number that is 10 or 100 more or less than a given number up to 1,200.				

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6			
	Representing Problem Situations with an Equals Sign								
	(5) Algebraic reasoning. The student applies mathematical process standards to identify and apply number patterns within properties of numbers and operations in order to describe relationships. The student is expected to:	(7) Algebraic reasoning. The student applies mathematical process standards to identify and apply number patterns within properties of numbers and operations in order to describe relationships. The student is expected to:	(5) Algebraic reasoning. The student applies mathematical process standards to analyze and create patterns and relationships. The student is expected to:	(5) Algebraic reasoning. The student applies mathematical process standards to develop concepts of expressions and equations. The student is expected to:	(4) Algebraic reasoning. The student applies mathematical process standards to develop concepts of expressions and equations. The student is expected to:	(7) Expressions, equations, and relationships. The student applies mathematical process standards to develop concepts of expressions and equations. The student is expected to:			
	(D) represent word problems involving addition and subtraction of whole numbers up to 20 using concrete and pictorial models and number sentences. (E) understand that the equal sign represents a relationship where expressions on each side of the equal sign represent the same value(s).	(C) represent and solve addition and subtraction word problems where unknowns may be any one of the terms in the problem.	(A) represent one- and two- step problems involving addition and subtraction of whole numbers to 1,000 using pictorial models, number lines, and equations.	(A) represent multi-step problems involving the four operations with whole numbers using strip diagrams and equations with a letter standing for the unknown quantity.	(B) represent and solve multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity.	(B) distinguish between expressions and equations verbally, numerically, and algebraically.			
			one- and two-step multiplication and division problems within 100 using arrays, strip diagrams, and equations.						

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
	///////////////////////////////////////					Representing Problem
						Situations with
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>						Equations and
		///////////////////////////////////////				Inequalities
						(9) Expressions, equations,
	///////////////////////////////////////	//////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////		and relationships. The
	///////////////////////////////////////	///////////////////////////////////////		///////////////////////////////////////	///////////////////////////////////////	student applies
	///////////////////////////////////////		///////////////////////////////////////	///////////////////////////////////////		mathematical process
		///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////		standards to use equations
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	and inequalities to
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	represent situations. The
		///////////////////////////////////////		///////////////////////////////////////		student is expected to:
		///////////////////////////////////////		///////////////////////////////////////		(A) write one-variable, one-
						step equations and
						inequalities to represent
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////			constraints or conditions
						within problems.
					///////////////////////////////////////	(B) represent solutions for
						one-variable, one-step
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////		equations and inequalities
						on number lines.
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>						(C) write corresponding
<i>\////////////////////////////////////</i>	///////////////////////////////////////		///////////////////////////////////////	///////////////////////////////////////		real-world problems given
<i>\(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>		///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////		one-variable, one-step
						equations or inequalities.

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6			
	Representing and Solving Problems with Equations and Inequalities								
	(5) Algebraic reasoning. The student applies mathematical process standards to identify and apply number patterns within properties of numbers and operations in order to describe relationships. The student is expected to:	(7) Algebraic reasoning. The student applies mathematical process standards to identify and apply number patterns within properties of numbers and operations in order to describe relationships. The student is expected to:	(5) Algebraic reasoning. The student applies mathematical process standards to analyze and create patterns and relationships. The student is expected to:	(5) Algebraic reasoning. The student applies mathematical process standards to develop concepts of expressions and equations. The student is expected to:	(4) Algebraic reasoning. The student applies mathematical process standards to develop concepts of expressions and equations. The student is expected to:	(10) Expressions, equations, and relationships. The student applies mathematical process standards to use equations and inequalities to solve problems. The student is expected to:			
	(F) determine the unknown whole number in an addition or subtraction equation when the unknown may be any one of the three or four terms in the equation.	(C) represent and solve addition and subtraction word problems where unknowns may be any one of the terms in the problem.	(A) represent one- and two- step problems involving addition and subtraction of whole numbers to 1,000 using pictorial models, number lines, and equations.			(A) model and solve one- variable, one-step equations and inequalities that represent problems, including geometric concepts.			
	(G) apply properties of operations to add and subtract two or three numbers.		(D) determine the unknown whole number in a multiplication or division equation relating three whole numbers when the unknown is either a missing factor or product. (B) represent and solve one- and two-step multiplication and division	(A) represent multi-step problems involving the four operations with whole numbers using strip diagrams and equations with a letter standing for the unknown quantity.	(B) represent and solve multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity.	(B) determine if the given value(s) make(s) onevariable, one-step equations or inequalities true.			
			problems within 100 using arrays, strip diagrams, and equations.						

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
			2	Describing and Simplifyi	ng Numerical Expressions	
			(5) Algebraic reasoning. The student applies mathematical process standards to analyze and create patterns and relationships. The student is expected to:		(4) Algebraic reasoning. The student applies mathematical process standards to develop concepts of expressions and equations. The student is expected to:	(7) Expressions, equations, and relationships. The student applies mathematical process standards to develop concepts of expressions and equations. The student is expected to:
			(C) describe a multiplication expression as a comparison such as 3 x 24 represents 3 times as much as 24.		(E) describe the meaning of parentheses and brackets in a numeric expression. (F) simplify numerical expressions that do not involve exponents, including up to two levels of grouping.	(A) generate equivalent numerical expressions using order of operations, including whole number exponents and prime factorization.
						(C) determine if two expressions are equivalent using concrete models, pictorial models, and algebraic representations. (D) generate equivalent expressions using the properties of operations: inverse, identity, commutative, associative, and distributive properties.

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6		
	///////////////////////////////////////		Applying Multiple Representations for Foundations of Functions					
			(5) Algebraic reasoning. The student applies mathematical process standards to analyze and create patterns and relationships. The student is expected to:	(5) Algebraic reasoning. The student applies mathematical process standards to develop concepts of expressions and equations. The student is expected to:	(4) Algebraic reasoning. The student applies mathematical process standards to develop concepts of expressions and equations. The student is expected to:	(4) Proportionality. The student applies mathematical process standards to develop an understanding of proportional relationships in problem situations. The student is expected to:		
			(E) represent real-world relationships using number pairs in a table and verbal descriptions.	(B) represent problems using an input-output table and numerical expressions to generate a number	(C) generate a numerical pattern when given a rule in the form $y = ax$ or $y = x + a$ and graph.	(A) compare two rules verbally, numerically, graphically, and symbolically		
				pattern that follows a given rule representing the relationship of the values in the resulting sequence and their position in the sequence.	(D) recognize the difference between additive and multiplicative numerical patterns given in a table or graph.	in the form of $y = ax$ or $y = x + a$ in order to differentiate between additive and multiplicative relationships.		
						(6) Expressions, equations, and relationships. The student applies mathematical process standards to use multiple representations to describe		
						algebraic relationships. The student is expected to: (A) identify independent and dependent quantities		
						from tables and graphs. (B) write an equation that represents the relationship between independent and dependent quantities from		
						a table. (C) represent a given situation using verbal descriptions, tables, graphs, and equations in the form $y = kx$ or $y = x + b$.		

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
				(5) Algebraic reasoning. The student applies mathematical process standards to develop concepts of expressions and equations. The student is expected to:	(4) Algebraic reasoning. The student applies mathematical process standards to develop concepts of expressions and equations. The student is expected to:	(8) Expressions, equations, and relationships. The student applies mathematical process standards to use geometry to represent relationships and solve problems. The student is expected to:
				(C) use models to determine the formulas for the perimeter of a rectangle (I + w + I + w or 2I + 2w), including the special form for perimeter of a square (4s) and the area of a rectangle (I x w).	(G) use concrete objects and pictorial models to develop the formulas for the volume of a rectangular prism, including the special form for a cube $(V = l \times w \times h, V = s \times s \times s, \text{ and } V = Bh)$.	(B) model area formulas for parallelograms, trapezoids, and triangles by decomposing and rearranging parts of these shapes.
				(D) solve problems related to perimeter and area of rectangles where dimensions are whole numbers.	(H) represent and solve problems related to perimeter and/or area and related to volume.	(C) write equations that represent problems related to the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers. (D) determine solutions for
						problems involving the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers. (A) extend previous knowledge of triangles and their properties to include the sum of angles of a triangle, the relationship between the lengths of sides and measures of angles in a triangle, and
						determining when three lengths form a triangle.

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
						Developing Concepts
						Related to
						Proportionality
						(4) Proportionality. The
			///////////////////////////////////////			
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////		student applies
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	mathematical process standards to develop an
			///////////////////////////////////////			understanding of
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////		proportional relationships in
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	problem situations. The
	///////////////////////////////////////		///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	student is expected to:
						(B) apply qualitative and
						quantitative reasoning to
						solve prediction and
						comparison of real-world
<i>\(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	///////////////////////////////////////					problems involving ratios
						and rates.
			///////////////////////////////////////			(C) give examples of ratios
						as multiplicative
				///////////////////////////////////////		comparisons of two
						quantities describing the
	///////////////////////////////////////					same attribute.
						(D) give examples of rates
						as the comparison by
	///////////////////////////////////////					division of two quantities
						having different attributes,
						including rates as quotients.
	///////////////////////////////////////					(E) represent ratios and
						percents with concrete
						models, fractions, and
	///////////////////////////////////////	///////////////////////////////////////				decimals.
						(F) represent benchmark
V/////////////////////////////////////		///////////////////////////////////////			///////////////////////////////////////	fractions and percents such
<i>\////////////////////////////////////</i>			///////////////////////////////////////			as 1%, 10%, 25%, 33 1/3%,
	///////////////////////////////////////					and multiples of these
						values using 10 by 10 grids,
<i>\(\(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	///////////////////////////////////////		///////////////////////////////////////			strip diagrams, number
<i>\////////////////////////////////////</i>	///////////////////////////////////////		///////////////////////////////////////			lines, and numbers.
V/////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////		///////////////////////////////////////	///////////////////////////////////////	(G) generate equivalent
<i>\////////////////////////////////////</i>	///////////////////////////////////////		///////////////////////////////////////			forms of fractions, decimals,
<i>\////////////////////////////////////</i>	///////////////////////////////////////			///////////////////////////////////////		and percents using real-
						world problems, including
			///////////////////////////////////////			problems that involve
<i>\////////////////////////////////////</i>		///////////////////////////////////////	///////////////////////////////////////			money. (H) convert units within a
	///////////////////////////////////////					
V/////////////////////////////////////					///////////////////////////////////////	measurement system, including the use of
<i>\(\(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>			///////////////////////////////////////			proportions and unit rates.
V	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		p. sportions and differences.

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6 Developing Concepts
			///////////////////////////////////////		///////////////////////////////////////	Related to
					///////////////////////////////////////	Proportionality
<i>\////////////////////////////////////</i>			///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	(5) Proportionality. The
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>		///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////		student applies
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>						mathematical process
			///////////////////////////////////////			standards to solve problems
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>						involving proportional
						relationships. The student is
						expected to:
		///////////////////////////////////////				(A) represent mathematical
	///////////////////////////////////////					and real-world problems
					///////////////////////////////////////	involving ratios and rates
			///////////////////////////////////////	///////////////////////////////////////		using scale factors, tables,
						graphs, and proportions.
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>						(B) solve real-world
			///////////////////////////////////////	///////////////////////////////////////		problems to find the whole
<i>*////////////////////////////////////</i>		///////////////////////////////////////				given a part and the
	///////////////////////////////////////	///////////////////////////////////////				percent, to find the part
					///////////////////////////////////////	given the whole and the
			///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	percent, and to find the
		///////////////////////////////////////				percent given the part and
						the whole, including the use
						of concrete and pictorial
		///////////////////////////////////////				models.
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>		///////////////////////////////////////		///////////////////////////////////////	///////////////////////////////////////	(C) use equivalent fractions,
<i>\////////////////////////////////////</i>					///////////////////////////////////////	decimals, and percents to
<i>\////////////////////////////////////</i>		///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	show equal parts of the
		///////////////////////////////////////	<u> </u>	<i>(((((((((((((((((((((((((((((((((((((</i>	//////////////////////////////////////	same whole.

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
	g Attributes of One-Dime	nsional. Two-Dimensiona	l, and Three-Dimensiona	l Figures		///////////////////////////////////////
(6) Geometry and measurement. The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties. The student is expected to:	(6) Geometry and measurement. The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties. The student is expected to:	(8) Geometry and measurement. The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties. The student is expected to:	(6) Geometry and measurement. The student applies mathematical process standards to analyze attributes of two-dimensional geometric figures to develop generalizations about their properties. The student is expected to:	(6) Geometry and measurement. The student applies mathematical process standards to analyze geometric attributes in order to develop generalizations about their properties. The student is expected to:		
(A) identify two-dimensional shapes, including circles, triangles, rectangles, and squares as special rectangles.	(C) create two-dimensional figures, including circles, triangles, rectangles, and squares, as special rectangles, rhombuses, and hexagons.	(A) create two dimensional	(B) use attributes to recognize rhombuses, parallelograms, trapezoids,	(A) identify points, lines, line segments, rays, angles, and perpendicular and parallel lines.		
(D) identify attributes of two-dimensional shapes using informal and formal geometric language interchangeably.	(D) identify two-dimensional shapes, including circles, triangles, rectangles, and squares, as special rectangles, rhombuses, and hexagons and describe their attributes using formal geometric language.	shapes based on given attributes, including numbe r of sides and vertices.	rectangles, and squares as examples of quadrilaterals and draw examples of quadrilaterals that do not belong to any of these subcategories.	(B) identify and draw one or more lines of symmetry, if they exist, for a two-dimensional figure. (C) apply knowledge of right angles to identify acute, right, and obtuse triangles.		
(B) identify three-dimensional solids, including cylinders, cones, spheres, and cubes, in the real world.	(E) identify three-dimensional solids, including spheres, cones, cylinders, rectangular prisms (including cubes), and triangular prisms, and describe their attributes using formal geometric language.					
(C) identify two-dimensional components of three- dimensional objects.	(B) distinguish between attributes that define a two-dimensional or three-dimensional figure and attributes that do not define the shape.					

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
	Classifying	and Sorting Two-Dimens	ional and Three-Dimensic	onal Figures		
(6) Geometry and measurement. The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties. The student is expected to:	(6) Geometry and measurement. The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties. The student is expected to:	(8) Geometry and measurement. The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties. The student is expected to:	(6) Geometry and measurement. The student applies mathematical process standards to analyze attributes of two-dimensional geometric figures to develop generalizations about their properties. The student is expected to:	(6) Geometry and measurement. The student applies mathematical process standards to analyze geometric attributes in order to develop generalizations about their properties. The student is expected to:	(5) Geometry and measurement. The student applies mathematical process standards to classify two-dimensional figures by attributes and properties. The student is expected to:	
E) classify and sort a variety of regular and rregular two- and three-dimensional rigures regardless of orientation or size.	(A) classify and sort regular and irregular two-dimensional shapes based on attributes using informal geometric language.	(C) classify and sort polygons with 12 or fewer sides according to attributes, including identifying the number of sides and number of vertices.	(A) classify and sort two- and three-dimensional figures, including cones, cylinders,	(D) classify two-dimensional figures based on the presence or absence of	(A) classify two-dimensional figures in a hierarchy of sets	
		B) classify and sort three- dimensional solids, including spheres, cones, cylinders, rectangular prisms (including cubes as special rectangular prisms), and triangular prisms, based on attributes using formal	spheres, triangular and para rectangular lines prisms, and cubes, based on abse	parallel or perpendicular lines or the presence or absence of angles of a specified size.	and subsets using graphic organizers based on their attributes and properties.	
Co	omposing and Decomposi	geometric language. ng				
Two-Dimen	sional and Three-Dimensi	onal Figures				
(6) Geometry and measurement. The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties. The student is expected to:	(6) Geometry and measurement. The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties. The student is expected to:	(8) Geometry and measurement. The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties. The student is expected to:				
(F) create two- dimensional shapes using a variety of materials and drawings.	(F) compose two- dimensional shapes by joining two, three, or four figures to produce a target shape in more than one way if possible.	(D) compose two- dimensional shapes and three-dimensional solids with given properties or attributes.				
		(E) decompose two- dimensional shapes such as cutting out a square from a rectangle, dividing a shape in half, or partitioning a rectangle into identical triangles and identify the resulting geometric parts.				

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
	Measuring Attributes of	Two-Dimensional and Th	ree-Dimensional Objects			
(7) Geometry and measurement. The student applies mathematical process standards to directly compare measurable attributes. The student is expected to:	(7) Geometry and measurement. The student applies mathematical process standards to select and use units to describe length and time. The student is expected to:	(9) Geometry and measurement. The student applies mathematical process standards to select and use units to describe length, area, and time. The student is expected to:	(7) Geometry and measurement. The student applies mathematical process standards to select appropriate units, strategies, and tools to solve problems involving customary and metric measurement. The student is expected to:	(8) Geometry and measurement. The student applies mathematical process standards to select appropriate customary and metric units, strategies, and tools to solve problems involving measurement. The student is expected to:		
(A) give an example of a measurable attribute of a given object, including length, capacity, and weight.			(D) determine when it is appropriate to use measurements of liquid volume (capacity) or weight. (E) determine liquid volume (capacity) or weight using appropriate units and tools.	(C) solve problems that deal with measurements of length, intervals of time, liquid volumes, mass, and		
(B) compare two objects with a common measurable attribute to see which object has more of/less of the attribute and describe the difference.				money using addition, subtraction, multiplication, or division as appropriate.		

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
	Measuring Length of To	wo-Dimensional and Thre	ee-Dimensional Objects			
(7) Geometry and measurement. The student applies mathematical process standards to directly compare measurable attributes. The student is expected to:	(7) Geometry and measurement. The student applies mathematical process standards to select and use units to describe length and time. The student is expected to:	(9) Geometry and measurement. The student applies mathematical process standards to select and use units to describe length, area, and time. The student is expected to:	(7) Geometry and measurement. The student applies mathematical process standards to select appropriate units, strategies, and tools to solve problems involving customary and metric measurement. The student is expected to:	(8) Geometry and measurement. The student applies mathematical process standards to select appropriate customary and metric units, strategies, and tools to solve problems involving measurement. The student is expected to:		
(A) give an example of a measurable attribute of a given object, including length, capacity, and weight.	(A) use measuring tools to measure the length of objects to reinforce the continuous nature of linear measurement. (B) illustrate that the length of an object is the number of same-size units of length that, when laid end-to-end with no gaps or overlaps, reach from one end of the object to the other. (D) describe a length to the nearest whole unit using	(D) determine the length of an object to the nearest marked unit using rulers, yardsticks, meter sticks, or measuring tapes. (A) find the length of objects using concrete models for standard units of length.		(C) solve problems that deal with measurements of length, intervals of time, liquid volumes, mass, and money using addition,		
	a number and a unit. (C) measure the same object/distance with units of two different lengths and describe how and why the measurements differ.	(B) describe the inverse relationship between the size of the unit and the number of units needed to equal the length of an object.		subtraction, multiplication, or division as appropriate.		
		(E) determine a solution to a problem involving length, including estimating lengths.	(B) determine the perimeter of a polygon or a missing length when given perimeter and remaining side lengths in problems.			

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6		
				Solving Problems Using Measurement Systems				
<i>\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(</i>	///////////////////////////////////////			(8) Geometry and	(7) Geometry and	(4) Proportionality. The		
	///////////////////////////////////////	///////////////////////////////////////		measurement. The student	measurement. The student	student applies		
	///////////////////////////////////////	///////////////////////////////////////		applies mathematical	applies mathematical	mathematical process		
	///////////////////////////////////////			process standards to select	process standards to select	standards to develop an		
	///////////////////////////////////////	///////////////////////////////////////		appropriate customary and	appropriate units,	understanding of		
	///////////////////////////////////////	///////////////////////////////////////		metric units, strategies, and	strategies, and tools to	proportional relationships in		
				tools to solve problems	solve problems involving	problem situations. The		
	///////////////////////////////////////	///////////////////////////////////////		involving measurement. The	measurement. The student	student is expected to:		
				student is expected to:	is expected to:			
				(A) identify relative sizes of				
	///////////////////////////////////////	///////////////////////////////////////		measurement units within				
				the customary and metric				
	///////////////////////////////////////			systems.				
	///////////////////////////////////////			(B) convert measurements				
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	within the same				
	///////////////////////////////////////	///////////////////////////////////////		measurement system,				
	///////////////////////////////////////			customary or metric, from a	(A) solve problems by			
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	smaller unit into a larger	calculating conversions	(H) convert units within a		
		///////////////////////////////////////		unit or a larger unit into a	within a measurement	measurement system,		
				smaller unit when given	system, customary or	including the use of		
	///////////////////////////////////////	///////////////////////////////////////		other equivalent measures	metric.	proportions and unit rates.		
	///////////////////////////////////////			represented in a table.				
				(C) solve problems that				
<i>\////////////////////////////////////</i>	///////////////////////////////////////	///////////////////////////////////////		deal with measurements of				
	///////////////////////////////////////			length, intervals of time,				
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>				liquid volumes, mass, and money using addition,				
<i>\////////////////////////////////////</i>	///////////////////////////////////////			subtraction, multiplication,				
<i>\(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	///////////////////////////////////////	///////////////////////////////////////		or division as appropriate.				
		<u> </u>		or division as appropriate.				

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
	(7) Geometry and measurement. The student applies mathematical process standards to select and use units to describe length and time. The student is expected to:	(9) Geometry and measurement. The student applies mathematical process standards to select and use units to describe length, area, and time. The student is expected to:	(7) Geometry and measurement. The student applies mathematical process standards to select appropriate units, strategies, and tools to solve problems involving customary and metric measurement. The student is expected to:	(8) Geometry and measurement. The student applies mathematical process standards to select appropriate customary and metric units, strategies, and tools to solve problems involving measurement. The student is expected to:		
	(E) tell time to the hour and half hour using analog and digital clocks.	(G) read and write time to the nearest one-minute increment using analog and digital clocks and distinguish between a.m. and p.m.	(C) determine the solutions to problems involving addition and subtraction of time intervals in minutes using pictorial models or tools such as a 15-minute event plus a 30-minute event equals 45 minutes.	(C) solve problems that deal with measurements of length, intervals of time, liquid volumes, mass, and money using addition, subtraction, multiplication, or division as appropriate.		

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
		N	Measuring Area and Volu	me		
	6) Geometry and measurement. The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to	(9) Geometry and measurement. The student applies mathematical process standards to select and use units to describe length, area, and time. The student is expected to:	(6) Geometry and measurement. The student applies mathematical process standards to analyze attributes of two-dimensional geometric figures to develop		(6) Geometry and measurement. The student applies mathematical process standards to understand, recognize, and quantify volume. The student is expected to:	
	develop generalizations about their properties. The student is expected to:	(F) use concrete models of	generalizations about their properties. The student is expected to:		(A) recognize a cube with side length of one unit as a	
		square units to find the area of a rectangle by covering it with no gaps or overlaps, counting to find the total number of square units, and describing the measurement using a number and the unit			unit cube having one cubic unit of volume and the volume of a threedimensional figure as the number of unit cubes (n cubic units) needed to fill it with no gaps or overlaps if possible.	
			(C) determine the area of rectangles with whole number side lengths in problems using multiplication related to the number of rows times the number of unit squares in each row.		(B) determine the volume of a rectangular prism with whole number side lengths in problems related to the number of layers times the number of unit cubes in the area of the base.	
			(D) decompose composite figures formed by rectangles into non-overlapping rectangles to determine the area of the original figure using the additive property of area.			
	(G) partition two- dimensional figures into two and four fair shares or equal parts and describe the parts using words.		(E) decompose two congruent two-dimensional figures into parts with equal areas and express the area of each part as a unit			
	(H) identify examples and non-examples of halves and fourths.		fraction of the whole and recognize that equal shares of identical wholes need not have the same shape.			

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
				Measuring Angles		
<i>\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(</i>				(7) Geometry and		
		///////////////////////////////////////	///////////////////////////////////////	measurement. The student		
<i>\////////////////////////////////////</i>	///////////////////////////////////////	///////////////////////////////////////		applies mathematical		
	///////////////////////////////////////		///////////////////////////////////////	process standards to solve		
		///////////////////////////////////////	///////////////////////////////////////	problems involving angles	///////////////////////////////////////	
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	less than or equal to 180		
	///////////////////////////////////////		///////////////////////////////////////	degrees. The student is		
			///////////////////////////////////////	expected to:		
		///////////////////////////////////////		(A) illustrate the measure		
				of an angle as the part of a		
				circle whose center is at the		
				vertex of the angle that is		
				"cut out" by the rays of the		
<i>\(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>				angle. Angle measures are		
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>				limited to whole numbers.		
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	///////////////////////////////////////	///////////////////////////////////////		(B) illustrate degrees as the		
	///////////////////////////////////////		///////////////////////////////////////	units used to measure an		
			///////////////////////////////////////	angle, where 1/360 of any		
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	circle is one degree and an		
	///////////////////////////////////////		///////////////////////////////////////	angle that "cuts" n/360 out		
	///////////////////////////////////////		///////////////////////////////////////	of any circle whose center is		
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	at the angle's vertex has a		
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	///////////////////////////////////////	///////////////////////////////////////		measure of <i>n</i> degrees. Angle measures are limited to	(//////////////////////////////////////	
	///////////////////////////////////////		///////////////////////////////////////	whole numbers.		
		///////////////////////////////////////		(C) determine the		
				approximate measures of angles in degrees to the		
				nearest whole number		
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	using a protractor.		///////////////////////////////////////
				(D) draw an angle with a		
				given measure.		
				(E) determine the measure		
V/////////////////////////////////////	///////////////////////////////////////		///////////////////////////////////////	of an unknown angle		
<i>\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(</i>				formed by two non-		
V/////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////		overlapping adjacent angles	///////////////////////////////////////	
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	given one or both angle	(//////////////////////////////////////	
<i>\////////////////////////////////////</i>	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	measures.		//////////////////////////////////////
				meddares.		

Kindergarten	Grade 1	Grade 2 Measuring Distance	Grade 3 e on a Number Line	Grade 4	Grade 5 Graphing on the	Grade 6 Coordinate Plane
		(9) Geometry and measurement. The student applies mathematical process standards to select and use units to describe length, area, and time. The student is expected to:	(7) Geometry and measurement. The student applies mathematical process standards to select appropriate units, strategies, and tools to solve problems involving customary and metric measurement. The student is expected to:		(8) Geometry and measurement. The student applies mathematical process standards to identify locations on a coordinate plane. The student is expected to:	(11) Measurement and data. The student applies mathematical process standards to use coordinate geometry to identify locations on a plane. The student is expected to:
		(C) represent whole numbers as distances from any given location on a number line.	(A) represent fractions of halves, fourths, and eighths as distances from zero on a number line.		(A) describe the key attributes of the coordinate plane, including perpendicular number lines (axes) where the intersection (origin) of the two lines coincides with zero on each number line and the given point (0, 0). the x-coordinate, the first number in an ordered pair, indicates movement parallel to the x-axis starting at the origin. the y-coordinate, the second number, indicates movement parallel to the y-axis starting at the origin. (B) describe the process for graphing ordered pairs of numbers in the first quadrant of the coordinate plane. (C) graph in the first quadrant of the coordinate plane ordered pairs of numbers arising from mathematical and real-world problems, including those generated by number patterns or found in an input-output table.	(A) graph points in all four quadrants using ordered pairs of rational numbers.

Kindergarten	Grade 1	Grade 2	Grade 3 Representing Data	Grade 4	Grade 5	Grade 6
8) Data analysis. The tudent applies nathematical process tandards to collect and organize data to make it useful for interpreting and organize data to make it useful for interpreting and organize data to student is expected to:	(8) Data analysis. The student applies mathematical process standards to organize data to make it useful for interpreting information and solving problems. The student is expected to:	(10) Data analysis. The student applies mathematical process standards to organize data to make it useful for interpreting information and solving problems. The student is expected to:	(8) Data analysis. The student applies mathematical process standards to solve problems by collecting, organizing, displaying, and interpreting data. The student is expected to:	(9) Data analysis. The student applies mathematical process standards to solve problems by collecting, organizing, displaying, and interpreting data. The student is expected to:	9) Data analysis. The student applies mathematical process standards to solve problems by collecting, organizing, displaying, and interpreting data. The student is expected to:	(12) Measurement and data. The student applies mathematical process standards to use numerica or graphical representatio to analyze problems. The student is expected to:
A) collect, sort, and organize data into two or hree categories.	(A) collect, sort, and organize data in up to three categories using models/representations such as tally marks or T-charts.					
		(A) explain that the length of a bar in a bar graph or the number of pictures in a pictograph represents the number of data points for a given category.				
B) use data to create real- bject and picture graphs.	(B) use data to create picture and bar-type graphs.	(B) organize a collection of data with up to four categories using pictographs and bar graphs with intervals of one or more.	(A) summarize a data set with multiple categories using a frequency table, dot plot, pictograph, or bar graph with scaled intervals.	(A) represent data on a frequency table, dot plot, or stem-and-leaf plot marked with whole numbers and fractions.	(A) represent categorical data with bar graphs or frequency tables and numerical data, including data sets of measurements in fractions or decimals, with dot plots or stem-and-leaf plots.	(A) represent numeric dat graphically, including dot plots, stem-and-leaf plots histograms, and box plots

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6		
Drawing Conclusions and Solving Problems Using Representations of Data								
(8) Data analysis. The student applies mathematical process standards to collect and organize data to make it useful for interpreting information. The student is expected to:	(8) Data analysis. The student applies mathematical process standards to organize data to make it useful for interpreting information and solving problems. The student is expected to:	(10) Data analysis. The student applies mathematical process standards to organize data to make it useful for interpreting information and solving problems. The student is expected to:	(8) Data analysis. The student applies mathematical process standards to solve problems by collecting, organizing, displaying, and interpreting data. The student is expected to:	(9) Data analysis. The student applies mathematical process standards to solve problems by collecting, organizing, displaying, and interpreting data. The student is expected to:	9) Data analysis. The student applies mathematical process standards to solve problems by collecting, organizing, displaying, and interpreting data. The student is expected to:	(13) Measurement and data. The student applies mathematical process standards to use numerical or graphical representations to solve problems. The student is expected to:		
(C) draw conclusions from real-object and picture graphs.	(C) draw conclusions and generate and answer questions using information from picture and bar-type graphs.	(D) draw conclusions and make predictions from information in a graph.				(A) interpret numeric data		
		(C) write and solve one- step word problems involving addition or subtraction using data represented within pictographs and bar graphs with intervals of one.	(B) solve one- and two-step problems using categorical data represented with a frequency table, dot plot, pictograph, or bar graph with scaled intervals.	(B) solve one- and two-step problems using data in whole number, decimal, and fraction form in a frequency table, dot plot, or stem-and-leaf plot.	(C) solve one- and two-step problems using data from a frequency table, dot plot, bar graph, stem-and-leaf plot, or scatterplot.	summarized in dot plots, stem-and-leaf plots, histograms, and box plots.		
						(B) distinguish between situations that yield data with and without variability.		

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
						Describing Data
						Distribution and
						Drawing Inferences
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	///////////////////////////////////////				///////////////////////////////////////	(12) Measurement and
						data. The student applies
<i>\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(</i>				///////////////////////////////////////		
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	///////////////////////////////////////			///////////////////////////////////////		mathematical process
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>		///////////////////////////////////////	///////////////////////////////////////			standards to use numerical
						or graphical representations
				///////////////////////////////////////		to analyze problems. The
	///////////////////////////////////////			///////////////////////////////////////		student is expected to:
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	///////////////////////////////////////		///////////////////////////////////////			(B) use the graphical
			///////////////////////////////////////			representation of numeric
<i>\////////////////////////////////////</i>						data to describe the center,
						spread, and shape of the
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	///////////////////////////////////////					data distribution.
<i>\(\(\(\(\(\(\(\(\(\)\\\\\\\\\\\\\\\\\\</i>	///////////////////////////////////////					(C) summarize numeric data
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////		with numerical summaries,
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	including the mean and
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	median (measures of
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////		center) and the range and
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////		interquartile range (IQR)
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	(measures of spread), and
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	use these summaries to
	///////////////////////////////////////		///////////////////////////////////////	///////////////////////////////////////		describe the center, spread,
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	and shape of the data
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	distribution.
	///////////////////////////////////////					(D) summarize categorical
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////		data with numerical and
	///////////////////////////////////////			///////////////////////////////////////		graphical summaries,
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////	including the mode, the
V/////////////////////////////////////		///////////////////////////////////////	///////////////////////////////////////		///////////////////////////////////////	percent of values in each
	///////////////////////////////////////	///////////////////////////////////////	///////////////////////////////////////			category (relative frequency
	///////////////////////////////////////		///////////////////////////////////////	///////////////////////////////////////		table), and the percent bar
	///////////////////////////////////////	///////////////////////////////////////		///////////////////////////////////////	///////////////////////////////////////	graph, and use these
		///////////////////////////////////////	///////////////////////////////////////		///////////////////////////////////////	summaries to describe the
		///////////////////////////////////////	///////////////////////////////////////			data distribution.

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	
Considering Income and Careers							
(9) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(9) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(11) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(9) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(10) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(10) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(14) Personal financial literacy. The student applies mathematical process standards to develop an economic way of thinking and problem solving useful in one's life as a knowledgeable consumer and investor. The student is expected to:	
(A) identify ways to earn income.	(A) define money earned as income.		(A) explain the connection between human capital/labor and income.	(A) distinguish between fixed and variable expenses.	(A) define income tax, payroll tax, sales tax, and property tax.		
(D) distinguish between wants and needs and identify income as a source to meet one's wants and needs.	(B) identify income as a means of obtaining goods and services, oftentimes making choices between wants and needs.				(B) explain the difference between gross income and net income.	(H) compare the annual salary of several occupations requiring various levels of post-secondary education or vocational training and calculate the effects of the different annual salaries on lifetime income.	
		(F) differentiate between producers and consumers and calculate the cost to produce a simple item.	(B) describe the relationship between the availability or scarcity of resources and how that impacts cost.	(B) calculate profit in a given situation.			
(B) differentiate between money received as income and money received as gifts. (C) list simple skills required for jobs.							

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
	(9) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(11) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(9) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	ing and Investing (10) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(10) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(14) Personal financial literacy. The student applies mathematical process standards to develop an economic way of thinking and problem solving useful in one's life as a knowledgeable consumer and investor. The student is
	(C) distinguish between spending and saving.	(A) calculate how money saved can accumulate into a larger amount over time. (B) explain that saving is an alternative to spending.	(E) list reasons to save and explain the benefit of a savings plan, including for college. (C) identify the costs and benefits of planned and unplanned spending decisions.	(C) compare the advantages and disadvantages of various savings options.		expected to:

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>		Considering Credit and Debt					
		(11) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(9) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(10) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(10) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(14) Personal financial literacy. The student applies mathematical process standards to develop an economic way of thinking and problem solving useful in one's life as a knowledgeable consumer and investor. The student is expected to:	
			(D) explain that credit is used when wants or needs exceed the ability to pay and that it is the borrower's responsibility to pay it back to the lender, usually with interest.	(E) describe the basic purpose of financial institutions, including keeping money safe, borrowing money, and lending.	(C) identify the advantages and disadvantages of different methods of payment, including check, credit card, debit card, and electronic payments.	(B) distinguish between debit cards and credit cards.	
		(D) identify examples of borrowing and distinguish between responsible and irresponsible borrowing.				(D) explain why it is important to establish a positive credit history. (E) describe the information in a credit report and how long it is retained.	
		(E) identify examples of lending and use concepts of benefits and costs to evaluate lending decisions				(G) explain various methods to pay for college, including through savings, grants, scholarships, student loans, and work-study. (F) describe the value of credit reports to borrowers and to lenders.	

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6		
	Considering Planning and Money Management							
	(9) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(11) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(9) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(10) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(10) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is expected to:	(14) Personal financial literacy. The student applies mathematical process standards to develop an economic way of thinking and problem solving useful in one's life as a knowledgeable consumer and investor. The student is expected to:		
	(D) consider charitable giving.		(F) identify decisions involving income, spending, saving, credit, and charitable giving.					
		(C) distinguish between a deposit and a withdrawal.		(D) describe how to allocate a weekly allowance among spending; saving, including for college; and sharing.	(D) develop a system for keeping and using financial records.	(A) compare the features and costs of a checking account and a debit card offered by different local financial institutions.		
					(E) describe actions that might be taken to balance a	(C) balance a check register that includes deposits, withdrawals, and transfers.		
					budget when expenses exceed income. (F) balance a simple budget.			