	Grade 5 Math TEKS/SE	Prior Learning TEKS/SE
5.2	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:	
5.2A	represent the value of the digit in decimals through the thousandths using expanded notation and numerals.	4.2A 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.
		4.2B represent the value of the digit in whole numbers through 1,000,000,000 and decimals to the hundredths using expanded notation and numerals.
		4.2E represent decimals, including tenths and hundredths, using concrete and visual models and money.
5.2B	compare and order two decimals to thousandths and represent comparisons using the symbols >, <, or =.	4.2C compare and order whole numbers to 1,000,000,000 and represent comparisons using the symbols >, <, or =.
		4.2F compare and order decimals using concrete and visual models to the hundredths.
5.2C	round decimals to tenths or hundredths.	4.2D round whole numbers to a given place value through the hundred thousands place.
		4.4G round to the nearest 10, 100, or 1,000 or use compatible numbers to estimate solutions involving whole numbers.
5.3	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:	
5.3A	estimate to determine solutions to mathematical and real-world problems involving addition, subtraction, multiplication, or division	4.4A add and subtract whole numbers and decimals to the hundredths place using the standard algorithm.
5.3B	multiply with fluency a three-digit number by a two-digit number using the standard algorithm.	4.4B determine products of a number and 10 or 100 using properties of operations and place value understandings.



		4.4C represent the product of 2 two-digit numbers using arrays, area models, or equations, including perfect squares through 15 by 15.
		4.4D 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 by a two- digit number. Strategies may include mental math, partial products, and the commutative, associative, and distributive properties.
		4.4H solve with fluency one- and two-step problems involving multiplication and division, including interpreting remainders.
5.3C	solve with proficiency for quotients of up to a four-digit dividend by a two-digit divisor using strategies and the standard algorithm.	4.4E represent the quotient of up to a four-digit whole number divided by a one- digit whole number using arrays, area models, or equations.
		4.4F use strategies and algorithms, including the standard algorithm, to divide up to a four-digit dividend by a one-digit divisor.
		4.4H solve with fluency one- and two-step problems involving multiplication and division, including interpreting remainders.
5.3D	represent multiplication of decimals with products to the hundredths using objects and pictorial models, including area models.	
5.3E	solve for products of decimals to the hundredths, including situations involving money, using strategies based on place-value understandings, properties of operations, and the relationship to the multiplication of whole numbers.	
5.3F	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.	



5.3G	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.	
5.3H	represent and solve addition and subtraction	4.3E
	of fractions with unequal denominators	represent and solve addition and subtraction
	referring to the same whole using objects	of fractions with equal denominators using
	and pictorial models and properties of	objects and pictorial models that build to the
	operations.	number line and properties of operations.
5.31	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.	
5.3J	represent division of a unit fraction by a	
	whole number and the division of a whole	
	number by a unit fraction such as $1/3 \div 7$ and	
	7 ÷ 1/3 using objects and pictorial models,	
F 211	including area models.	4.05
5.3K	add and subtract positive rational numbers	4.3F
	fluently.	evaluate the reasonableness of sums and
		differences of fractions using benchmark
		fractions 0, 1/4, 1/2, 3/4, and 1, referring to
F 21	divide what a sure bound to the free sties and	the same whole.
5.3L	divide whole numbers by unit fractions and	
I	unit fractions by whole numbers	
	unit fractions by whole numbers.	
5.4	Algebraic reasoning. The student applies math	
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5.4A	Algebraic reasoning. The student applies math concepts of expressions and equations. The studentify prime and composite numbers.  represent and solve multi-step problems involving the four operations with whole	4.5A represent multi-step problems involving the
5.4A	Algebraic reasoning. The student applies math concepts of expressions and equations. The studentify prime and composite numbers. represent and solve multi-step problems involving the four operations with whole numbers using equations with a letter	4.5A represent multi-step problems involving the four operations with whole numbers using
5.4A	Algebraic reasoning. The student applies math concepts of expressions and equations. The studentify prime and composite numbers.  represent and solve multi-step problems involving the four operations with whole	4.5A represent multi-step problems involving the four operations with whole numbers using strip diagrams and equations with a letter
5.4A 5.4B	Algebraic reasoning. The student applies math concepts of expressions and equations. The studentify prime and composite numbers.  represent and solve multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity.	4.5A represent multi-step problems involving the four operations with whole numbers using strip diagrams and equations with a letter standing for the unknown quantity.
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5.4A 5.4B 5.4C	Algebraic reasoning. The student applies math concepts of expressions and equations. The stridentify prime and composite numbers. represent and solve multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity.  generate a numerical pattern when given a rule in the form $y = ax$ or $y = x + a$ and graph.  recognize the difference between additive and multiplicative numerical patterns given in a table or graph.	4.5A represent multi-step problems involving the four operations with whole numbers using strip diagrams and equations with a letter standing for the unknown quantity.  4.5B represent problems using an input-output table and numerical expressions to generate a number pattern that follows a given rule representing the relationship of the values in the resulting sequence and their position in the sequence.  4.5B represent problems using an input-output table and numerical expressions to generate a number pattern that follows a given rule representing the relationship of the values in
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a		<u> </u>
5.4F	simplify numerical expressions that do not	
	involve exponents, including up to two levels	
5.4G	of grouping use concrete objects and pictorial models to	4.5C
5.40	develop the formulas for the volume of a	use models to determine the formulas for
	rectangular prism, including the special form	the perimeter of a rectangle $(l + w + l + w)$ or
	for a cube $(V = I \times w \times h, V = s \times s \times s, \text{ and } V$	2 <i>l</i> + 2 <i>w</i> ), including the special form for
	Bh).	perimeter of a square (4s) and the area of a
		rectangle (I × w).
5.4H	represent and solve problems related to	4.5D
	perimeter and/or area and related to	solve problems related to perimeter and
	volume.	area of rectangles where dimensions are
		whole numbers.
5.5	Geometry and measurement. The student app	lies mathematical process standards to
	classify two-dimensional figures by attributes a	·
5.5A	classify two-dimensional figures in a	4.6A
	hierarchy of sets and subsets using graphic	classify and sort two- and three-dimensional
	organizers based on their attributes and	figures, including cones, cylinders, spheres,
	properties.	triangular and rectangular prisms, and cubes,
		based on attributes using formal geometric
		language.
5.6	Geometry and measurement. The student app	· ·
	understand, recognize, and quantify volume. T	-
5.6A	recognize a cube with side length of one unit	2.9F
	as a unit cube having one cubic unit of	use concrete models of square units to find
	volume and the volume of a three-	the area of a rectangle by covering it with no
	dimensional figure as the number of unit cubes (n cubic units) needed to fill it with no	gaps or overlaps, counting to find the total number of square units, and describing the
	gaps or overlaps if possible.	measurement using a number and the unit .
5.6B	determine the volume of a rectangular prism	3.6C
	with whole number side lengths in problems	determine the area of rectangles with whole
	related to the number of layers times the	number side lengths in problems using
	number of unit cubes in the area of the base.	multiplication related to the number of rows
		times the number of unit squares in each
		row.
5.7	Geometry and measurement. The student applies mathematical process standards to select	
5./	Geometry and measurement. The student app	lies mathematical process standards to select
5.7	Geometry and measurement. The student app appropriate units, strategies, and tools to solve	·
5.7A	, ,	·
	appropriate units, strategies, and tools to solve	problems involving measurement.
	appropriate units, strategies, and tools to solve The student is expected to solve problems	e problems involving measurement. 4.8A
	appropriate units, strategies, and tools to solve The student is expected to solve problems by calculating conversions within a	4.8A identify relative sizes of measurement units within the customary and metric systems.
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	appropriate units, strategies, and tools to solve The student is expected to solve problems by calculating conversions within a	4.8B convert measurements within the same
	appropriate units, strategies, and tools to solve The student is expected to solve problems by calculating conversions within a	4.8A identify relative sizes of measurement units within the customary and metric systems.  4.8B convert measurements within the same measurement system, customary or metric,
	appropriate units, strategies, and tools to solve The student is expected to solve problems by calculating conversions within a	4.8A identify relative sizes of measurement units within the customary and metric systems.  4.8B convert measurements within the same measurement system, customary or metric, from a smaller unit into a larger unit or a
	appropriate units, strategies, and tools to solve The student is expected to solve problems by calculating conversions within a	4.8A identify relative sizes of measurement units within the customary and metric systems.  4.8B convert measurements within the same measurement system, customary or metric, from a smaller unit into a larger unit or a larger unit into a smaller unit when given
	appropriate units, strategies, and tools to solve The student is expected to solve problems by calculating conversions within a	4.8A identify relative sizes of measurement units within the customary and metric systems.  4.8B convert measurements within the same measurement system, customary or metric, from a smaller unit into a larger unit or a



	4.8C solve problems that deal with measurements of length, intervals of time, liquid volumes, mass, and money using addition, subtraction, multiplication, or division as appropriate.
Geometry and measurement. The student applies mathematical process standards to identify locations on a coordinate plane. The student is expected to:	
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; and the y-coordinate, the second number, indicates movement parallel to the y-axis starting at	3.7A represent fractions of halves, fourths, and eighths as distances from zero on a number line.
describe the process for graphing ordered pairs of numbers in the first quadrant of the coordinate plane.	3.7A represent fractions of halves, fourths, and eighths as distances from zero on a number line.
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.	3.7A represent fractions of halves, fourths, and eighths as distances from zero on a number line.
Data analysis. The student applies mathematic collecting, organizing, displaying, and interpret	· · · · · · · · · · · · · · · · · · ·
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 stemand-leaf plots.	4.9A represent data on a frequency table, dot plot, or stem-and-leaf plot marked with whole numbers and fractions.
represent discrete paired data on a scatterplot.	
solve one- and two-step problems using data from a frequency table, dot plot, bar graph, stem-and-leaf plot, or scatterplot.	4.9B 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.
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:	
define income tax, payroll tax, sales tax, and property tax.	4.10A distinguish between fixed and variable expenses.
	identify locations on a coordinate plane. The states 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; and the y-coordinate, the second number, indicates movement parallel to the y-axis starting at the origin.  describe the process for graphing ordered pairs of numbers in the first quadrant of the coordinate plane.  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.  Data analysis. The student applies mathematic collecting, organizing, displaying, and interpret 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 stemand-leaf plots.  represent discrete paired data on a scatterplot.  solve one- and two-step problems using data from a frequency table, dot plot, bar graph, stem-and-leaf plot, or scatterplot.



5.10B	explain the difference between gross income and net income.	1.1B identify income as a means of obtaining goods and services, oftentimes making choices between wants and needs.
5.10C	identify the advantages and disadvantages of different methods of payment, including check, credit card, debit card, and electronic payments.	4.10E describe the basic purpose of financial institutions, including keeping money safe, borrowing money, and lending.
5.10D	develop a system for keeping and using financial records.	4.10D describe how to allocate a weekly allowance among spending; saving, including for college; and sharing.
5.10E	describe actions that might be taken to balance a budget when expenses exceed income.	
5.10F	balance a simple budget.	

