TTUISD - TEKS Tracker					
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TTUISD: GRADE 5 - Math				-	
TEKS: §111.11 - Mathematics, K-5 Elementary				-	
TEVE Decrimement (Elementeur)	Sam		Loggon #	Textbook	Bloom's
TEKS Requirement (Elementary)	Sem	1. A	Lesson #	Chapter/Page #	Taxonomy
TEKS: §111.7 - Grade 5 Mathematics, Adopted 2012 Source: The provisions of this §111.7 adopted to be effective September 10, 2012, 37 TexReg					
7109.					
 (a) Introduction. (1) The desire to achieve educational excellence is the driving force behind the Texas essential knowledge and skills for mathematics, guided by the college and career readiness standards. By embedding statistics, probability, and finance, while focusing on computational thinking, mathematical fluency, and solid understanding, Texas will lead the way in mathematics education and prepare all Texas students for the challenges they will face in the 21st century. 					
(2) The process standards describe ways in which students are expected to engage in the content. The placement of the process standards at the beginning of the knowledge and skills listed for each grade and course is intentional. The process standards weave the other knowledge and skills together so that students may be successful problem solvers and use mathematics efficiently and effectively in daily life. The process standards are integrated at every grade level and course. When possible, students will apply mathematics to problems arising in everyday life, society, and the workplace. Students will use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution. Students will select appropriate tools such as real objects, manipulatives, algorithms, paper and pencil, and technology and techniques such as mental math, estimation, number sense, and generalization and abstraction to solve problems. Students will effectively communicate mathematical ideas, reasoning, and their implications using multiple representations such as symbols, diagrams, graphs, computer programs, and language. Students will use mathematical relationships to generate solutions and make connections and predictions. Students will display, explain, or justify mathematical ideas and arguments using precise mathematical language in written or oral communication.					
(3) For students to become fluent in mathematics, students must develop a robust sense of number. The National Research Council's report, "Adding It Up," defines procedural fluency as "skill in carrying out procedures flexibly, accurately, efficiently, and appropriately." As students develop procedural fluency, they must also realize that true problem solving may take time, effort, and perseverance. Students in Grade 5 are expected to perform their work without the use of calculators.					
 (4) The primary focal areas in Grade 5 are solving problems involving all four operations with positive rational numbers, determining and generating formulas and solutions to expressions, and extending measurement to area and volume. These focal areas are supported throughout the mathematical strands of number and operations, algebraic reasoning, geometry and measurement, and data analysis. In Grades 3-5, the number set is limited to positive rational numbers. In number and operations, students will apply place value and identify part-to-whole relationships and equivalence. In algebraic reasoning, students will represent and solve problems with expressions and equations, build foundations of functions through patterning, identify prime and composite numbers, and use the order of operations. In geometry and measurement, students will classify two-dimensional figures, connect geometric attributes to the measures of three-dimensional figures, use units of measure, and represent location using a coordinate plane. In data analysis, students will represent and interpret data. (5) Statements that contain the word "including" reference content that must be mastered, 					
(b) Knowledge and skills.					

TEKS Requirement (Elementary)	Sem. A	Lesson #	Textbook Chapter/Page #	Bloom's Taxonomy
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:				[<u>_</u>
(A) apply mathematics to problems arising in everyday life, society, and the workplace;	Α	1.4, 1.5, 2.4, 3.3, 4.3, 5.6, 6.5, 7.2, 7.5, 8.2		
(B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution;	A	$\begin{array}{c} 1.8, 2.1, 2.2, \\ 2.6, 2.8, 3.5, \\ 4.5, 5.8, 6.5, \\ 7.4, 8.2, 8.4 \end{array}$		
(C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems;	Α	1.1, 1.6, 1.7, 2.3, 3.3, 3.8, 4.1, 4.2, 5.1, 5.2, 5.5, 6.4, 7.1, 8.1		
(D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate;	Α	1.2, 1.3, 2.2, 2.7, 3.2, 3.6, 4.1, 5.3, 6.2, 7.1, 7.2, 7.3, 8.1, 8.4		
(E) create and use representations to organize, record, and communicate mathematical ideas;	Α	1.4, 1.5, 1.7, 2.8, 3.2, 3.6, 4.4, 5.3, 6.1, 6.2, 6.6, 7.3, 8.2		
(F) analyze mathematical relationships to connect and communicate mathematical ideas; and	A	1.2, 2.5, 3.1, 3.7, 4.4, 5.4, 6.3, 6.4, 6.6, 7.1, 7.4, 8.3		
(G) display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication.	Α	1.1, 2.5, 3.4, 4.2, 5.7, 6.3, 7.4, 7.5, 8.3		
(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:				
(A) represent the value of the digit in decimals through the thousandths using expanded notation and numerals;	Α	1.2, 1.3	pp.11-16, 17-22	
(B) compare and order two decimals to thousandths and represent comparisons using the symbols >, <, or =; and	Α	1.4	рр. 23-28	
 (C) round decimals to tenths or hundredths. (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: 	Α	1.5	pp. 29-34	
(A) estimate to determine solutions to mathematical and real-world problems involving addition, subtraction, multiplication, or division;	Α	1.6, 2.5, 4.3, 5.3, 5.4	pp. 35-40, 79-84, 167-172, 207-212, 213-218	
(B) multiply with fluency a three-digit number by a two-digit number using the standard algorithm;	Α	2.1, 2.2, 5.4	pp. 55-60, 61-66, 213-218	
(C) solve with proficiency for quotients of up to a four-digit dividend by a two-digit divisor using strategies and the standard algorithm;	А	2.3, 2.4, 2.6, 2.7, 2.8, 5.4	pp. 67-72, 73-78, 85-90, 91-96, 97- 102, 213-218	
(D) represent multiplication of decimals with products to the hundredths using objects and pictorial models, including area models;	А	3.2, 3.4, 3.5, 3.6, 5.4	pp. 111-116, 123- 128, 129-134, 135- 140, 213-218	

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A	3.1, 3.3, 3.4, 3.5, 3.7, 3.8, 5.4	Chapter/Page # pp. 105-110, 117- 122, 123-128, 129- 134, 141-146, 147- 152, 213-218	Taxonomy
A	4.2, 4.4, 5.4	pp. 161-166, 173- 178, 213-218	
А	4.1, 4.4, 4.5, 5.4	pp. 155-160, 173- 178, 179-184, 213- 218	
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e A	5.4, 6.1,6.2,6.3	pp. 213-218, 245- 250, 251-256, 257- 262	
А	5.4, 6.4, 6.5, 6.6	pp. 213-218, 263- 268, 269-274, 275- 280	
A	1.1, 1.7, 1.8, 5.1, 5.2, 5.4, 5.5, 5.6, 5.7,	pp. 5-10, 41-46, 47- 52, 195-200, 201- 206, 213-218, 219- 224, 225-230, 231- 236	
А	5.4, 6.4, 6.5, 6.6	pp. 213-218, 263- 268, 269-274, 275- 280	
A	7.1, 7.2, 8.2	pp. 291-296, 297- 302, 329-334	
A	8.1, 8.2, 8.3, 8.4	pp. 323-328, 329- 334, 335-340, 341- 346	
A	8.2	pp. 329-334	
А	8.2	pp. 329-334	
А	7.3,7.5, 8.2	pp. 303-308, 315- 320, 329-334	
А	7.4,7.5, 8.2	pp. 309-314, 315- 320, 329-334	
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(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.	5			
(7) Geometry and measurement. The student applies mathematical process standards to selec appropriate units, strategies, and tools to solve problems involving measurement. The student is expected to solve problems by calculating conversions within a measurement system, customary or metric.				
(8) Geometry and measurement. The student applies mathematical process standards to identify locations on a coordinate plane. The student is expected to:				
(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; and 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; and				
(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.				
(9) Data analysis. The student applies mathematical process standards to solve problems by collecting, organizing, displaying, and interpreting data. The student is expected to:				
(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;				
 (B) represent discrete paired data on a scatterplot; and (C) solve one- and two-step problems using data from a frequency table, dot plot, bar graph, stem-and-leaf plot, or scatterplot. 				
(10) Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. The student is				
(A) define income tax, payroll tax, sales tax, and property tax;(B) explain the difference between gross income and net income;				
(C) identify the advantages and disadvantages of different methods of payment, including check, credit card, debit card, and electronic payments;				
(D) develop a system for keeping and using financial records;(E) describe actions that might be taken to balance a budget when expenses exceed income; and				
(F) balance a simple budget.				