Math TEKS for 6th Grade: 2013-2014

Primar	Primary Areas of Focus: Use ratios to describe direct proportional relationships involving number, geometry,						
measur	eme	nt, probability and adding/subtracting decimals and fractions. (Graphing Technology	Allowe	ed)			
Cat. 1: Explore mathematical relationships and describe increasingly complex situations							
Cat. 2: Describe how a change in one quantity in a relationship results in a change in the other, connect verbal,							
numeri	numeric, graphic, and symbolic repreations of relationships						
Cat. 3:	Cat. 3: Communicate info about geometric figures by quantifying attributes						
Cat. 4:	Ger	refailize procedures from measurement & solve	& mak	o roco	mmon	dation	
Note: Sta	oteme	e statistics, data, & concepts of probability to draw conclusions, evaluate arguments, and that must be mastered, while "such as" are intended as possible		ive exan		Jalion	
Note: Ou		Linderlying Processes & Mathematical Tools	maotra		ipico.		
PROC	FSS	(7 TEKS) *Incorporated into 75% of test questions* 8-Week Periods:	1et	2nd	3rd	4th	
6 11A	*	Identify and Apply Math in Everyday Experiences & across subjects	131	ZIIU	510	τιι	
0.117		Problem Solving Model - 1) Analyze Info. 2) Make a plan. 3) Solve. 4) Justify &					
6 1 1 B	*	5) Evaluate the process					
0.110		Select or Develop Problem-Solving Strategy: 1) Draw, 2) Find Pattern, 3)					
		Guess/Check, 4) Acting, 5) Make a Table, 6) Work Simpler Problem, 7) Work					
6.11C	*	Backwards					
6 1 1 D	*	Use Tools such as real objects, manipulatives, technology, mental math, & estimation to solve problems					
0.110		Communicate math ideas using language, tools, appropriate units, and					
6 12A	*	graphical, numerical, physical, or algebraic models					
6.13A	*	Make conjectures from patterns or sets of examples & non-examples					
6.13R	*	Validate his/her conclusions using mathematical properties & relationships					
0.100		Category 1: Numbers Operations & Quantitative Reasoning					
CON		VT: (21 TEKS)	1 ct	2nd	2rd	4th	
		Pational Numbers in Equivalent Forms	131	Znu	JIU	401	
614	0	Compare and order non negative rational numbers					
0.1A							
0.1D	ĸ	Generate equivalent forms of rational #s including whole numbers, fractions, & decimals					
6.1C	S S	Use integers to represent real-life situations					
6.1D	5	write prime factorization using exponents					
6.1E	S	Identify factors of a positive integer, common factors, & the greatest common factor					
6.1F	S	Identify multiples of a positive integer & common multiples & the least common multiple					
		Add, Subtract, Multiply, Divide, & Estimate					
	_	Model situations using Adding & Subtracting Fractions (use					
6.2A	S	objects/pictures/#s, words)					
6.2B	R	Add & Subtract to solve problems involving fractions & decimals					
6.2C	R	Multiply & Divide to solve problems involving equivalent ratios & rates					
		Estimate & Round to approximate results & to solve problems where exact					
6.2D	S	answers are not required					
6.2E	R	Use order of operations to simply expressions (without exponents)					
		Category 2: Patterns, Relationships, & Algebraic Reasoning					
		Ratios					
6.3A	S	Use ratios to describe proportional situations					
6.3B	S	Represent ratios & percents (%) with concrete models, fractions, & decimals					
6.3C	R	Use ratios to make predictions in proportional situations					
	-	Letters as Variables in Math Expressions					
		Use tables & symbols to represent & describe proportional & other					
		relationships involving conversions, arithmetic sequences (with a constant					
6.4A	R	rate of change), perimeter, and area.					
		Use tables of data to generate formulas representing relationships involving					
6.4B	S	perimeter, area, volume of a rectangular prism, etc.					
		Letters to Represent an Unknown in an Equation					
6.5A	6.5A R Formulate equations from problem situations decribed by linear relationships.						
		8-Week Periods:	1st	2nd	3rd	4th	

Category 3: Geometry & Spatial Reasoning								
Vocabulary to describe angles, polygons, & circles								
6.6A	S	Use angle measurements to classify angles as acute, obtuse, or right						
6.6B	S	Identify relationships involving angles in triangles & quadrilaterals						
6.6C	R	Describe the relationship between radius, diameter, & circumference of a circle						
Coordinate geometry to identify locations in two dimensions								
		Locate & Name Points on Coordinate Plane (using ordered pairs of non-						
6.7A	S	negative rational numbers)						
Category 4: Measurement								
	Estimate & Measure - Length, Area, Time, Temperature, Volume, Weight, & Angles							
6.8A	S	Estimate measurements (including circumference) & evaluate reasonableness						
		Select & Use Appropriate units, tools, or formulas to Measure Length,						
6.8B	R	Perimeter, Area, & Volume, Time & Temperature, and Weight						
6.8C	S	Measure angles						
6.8D	S	Convert measures within same measurement system (Metric & Customary)						
		Category 5: Probability & Statistics						
Experimental & Theoretical Probability to Make Predictions								
6.9A	S	Construct sample spaces using lists & tree diagrams						
6.9B	S	Find the probabilities of a simple event & its complement & describe relationship b/t the two						
	Statistical Representations to Analyze Data							
		Select & Use appropriate representations to display the same data						
6.10A	S	(including line plot, line graph, bar graph, and stem & leaf plot))						
6.10B	S	Identify Mean (using objects/pictures) & Median, Mode, and Range						
6.10C	S	Sketch circle graphs to display data						
6.10D	R	Solve problems by collecting, organizing, displaying, and interpreting data						

Summary of Readiness Standards (The Big Rocks) (10 of 31 TEKS)							
			Equivalent Forms (Whole				
6.1B	R	Generate equivalent forms of rational #s including whole numbers, fractions, & decimals	#, Fractions, Decimals)				
			Add/Subtract Fractions				
6.2B	R	Add & Subtract to solve problems involving fractions & decimals	& Decimals				
			Multiply/Divide				
6.2C	R	Multiply & Divide to solve problems involving equivalent ratios & rates	Ratios/Rates				
6.2E	R	Use order of operations to simply expressions (without exponents)	Order of Operations				
			Ratios to Make				
6.3C	R	Use ratios to make predictions in proportional situations	Predictions				
		Use tables & symbols to represent & describe proportional & other	Use Tables & Symbols				
		relationships involving conversions, arithmetic sequences (with a constant	to represent				
6.4A	R	rate of change), perimeter, and area.	relationships				
6.5A	R	Formulate equations from problem situations decribed by linear relationships	Formulate Equations				
			Radius, Diameter, &				
6.6C	R	Describe the relationship between radius, diameter, & circumference of a circle	Circumference				
			Measure length,				
			perimeter, area,				
		Select & Use Appropriate units, tools, or formulas to Measure Length,	volume, Time,				
6.8B	R	Perimeter, Area, & Volume, Time & Temperature, and Weight	Temperature, Weight				
6.10D	R	Solve problems by collecting, organizing, displaying, and interpreting data	Managing Data				
*3-4 qu	*3-4 questions will be asked on each of these (approximately 33 of 52 question on STAAR test)						

STAAR Test: Tuesday, April 22, 2014, **Last Day of School:** Friday, May 23