		1 <sup>st</sup> SW 2 <sup>nd</sup> SW		3 <sup>rd</sup> SW		<b>4</b> <sup>th</sup> :	SW	W 5 <sup>th</sup> S		6 <sup>th</sup>	SW		
		1	2	3	4	5	6	7	8	9	10	11	12
7.1	1 Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:												
7.1A	Apply mathematics to problems arising in everyday life, society, and the workplace.	т	т	Т	Т	т	т	т	т	т	Т	Т	Т
7.1B	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.	т	т	т	т	т	т	т	т	т	т	т	т
7.1C	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.	т	т	т	т	т	т	т	т	т	т	т	т
7.1D	Communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate.	т	т	Т	т	т	т	т	т	т	т	т	т
7.1E	Create and use representations to organize, record, and communicate mathematical ideas.	т	т	т	т	т	т	т	т	т	т	т	т
7.1F	Analyze mathematical relationships to connect and communicate mathematical ideas.	т	т	Т	т	т	т	т	т	т	т	т	т
7.1G	Display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication.	т	т	т	т	т	т	т	т	т	т	т	т
7.2	<b>Number and operations.</b> The student applies mathematical process s is expected to:	tandaro	ds to re	presen	nt and u	se ratio	onal nui	mbers	in a var	riety of	forms.	The stu	ident
7.2	Extend previous knowledge of sets and subsets using a visual representation to describe relationships between sets of rational numbers. Supporting	т										0	
7.3	<b>Number and operations.</b> The student applies mathematical process s justifying solutions. The student is expected to:	tandaro	ds to ac	dd, sub	tract, m	nultiply,	and di	vide wł	nile solv	ving pro	oblems	and	
7.3A	Add, subtract, multiply, and divide rational numbers fluently. <b>Supporting</b>	т	0	0	ο	0	0	0	0	0	0	0	ο
7.3B	Apply and extend previous understandings of operations to solve problems using addition, subtraction, multiplication, and division of rational numbers. <b>Readiness</b>	т	0	0	ο	0	0	0	0	0	Т	0	0
7.4	<b>Proportionality.</b> The student applies mathematical process standards is expected to:	to repr	esent a	nd solv	ve prob	lems in	ivolving	propol	rtional ı	relation	ships.	The stu	Ident
7.4A	Represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $d = rt$ . <b>Readiness</b>			т	т	0		0			т	0	

		1 <sup>st</sup>	SW	2 <sup>nd</sup>	SW	3 <sup>rd</sup>	SW	4 <sup>th</sup>	SW	5 <sup>th</sup>	SW	6 <sup>th</sup>	SW
		1	2	3	4	5	6	7	8	9	10	11	12
	Calculate unit rates from rates in mathematical and real-world				_			_					
7.4B	problems.			Т	ο	0		ο			т	ο	
	Supporting												
740	mathematical and real-world problems			Т	т	0		0			т	0	
7.40	Supporting			•	•	Ŭ		Ŭ			•		
	Solve problems involving ratios, rates, and percents, including multi-												
740	step problems involving percent increase and percent decrease, and				0	0	0			0	т	0	
7.40	financial literacy problems.				0	U	U			U		0	
	Readiness												
	Convert between measurement systems, including the use of			-		•		-			•		•
7.4E	proportions and the use of unit rates.				0	0			0		0	0	0
	Proportionality The student applies mathematical process standards	touse	aeome	try to o	lescribe	or sol	l ve proh	lems ir	volvina		rtional		
7.5	relationships. The student is expected to:	10 400	goomo		000/160	0, 001			i voivii ig	j pi opo	lional		
7 5 4	Generalize the critical attributes of similarity, including ratios within					т		<u> </u>			0		0
7.5A	and between similar shapes. Supporting					•		0			0		0
7.5B	Describe $\pi$ as the ratio of the circumference of a circle to its diameter.							т			0		0
	Supporting							•			•		•
7.5C	Solve mathematical and real-world problems involving similar shape					т		о	ο		т		ο
	and scale drawings. <b>Readiness</b>	10 1100	n rahak		datatia	1:00 10	dooorib						-
7.6	proportional relationships. The student is expected to:	io use	probac	niny ari	u statis		uescho	e or so	ive proi	olems i	nvoivin	g	
	Represent sample spaces for simple and compound events using												
7.6A	lists and tree diagrams.						Т				0		
	Supporting												
7.6B	Select and use different simulations to represent simple and						Т				0		
	Make predictions and determine solutions using experimental data for												
7.6C	simple and compound events.						т				ο		
	Supporting						_				-		
	Make predictions and determine solutions using theoretical												
7.6D	probability for simple and compound events.						Т				0		
	Supporting												
	Find the probabilities of a simple event and its complement and						-				•		
7.6E	describe the relationship between the two.						1				0		
	Use data from a random sample to make inferences about a												
7.6F	population.						т				0		
	Supporting												

		1 <sup>st</sup> SW		1 <sup>st</sup> SW 2 <sup>nd</sup> S		W 3 <sup>rd</sup> SW		W 4 <sup>th</sup> \$		4 <sup>th</sup> SW 5 <sup>th</sup> S		6 <sup>th</sup>	SW
		1	2	3	4	5	6	7	8	9	10	11	12
7.6G	Solve problems using data represented in bar graphs, dot plots, and circle graphs, including part-to-whole and part-to-part comparisons and equivalents. Supporting									т	0		
7.6H	Solve problems using qualitative and quantitative predictions and comparisons from simple experiments. <b>Readiness</b>						т				0		
7.61	Determine experimental and theoretical probabilities related to simple and compound events using data and sample spaces. <i>Readiness</i>						т				ο		
7.7	<b>Expressions, equations, and relationships.</b> The student applies materies representations. The student is expected to:	themat	ical pro	cess st	andaro	ls to rej	present	t linear	relatior	nships u	ising m	nultiple	
7.7	Represent linear relationships using verbal descriptions, tables, graphs, and equations that simplify to the form $y = mx + b$ . <b>Readiness</b>				т	ο					т	т	
7.8	<b>Expressions, equations, and relationships.</b> The student applies main student is expected to:	themat	ical pro	cess st	andaro	ls to de	velop g	geometi	ric relat	tionship	s with	volume	. The
7.8A	Model the relationship between the volume of a rectangular prism and a rectangular pyramid having both congruent bases and heights and connect that relationship to the formulas.								т		0		ο
7.8B	Explain verbally and symbolically the relationship between the volume of a triangular prism and a triangular pyramid having both congruent bases and heights and connect that relationship to the formulas.								т		0		ο
7.8C	Use models to determine the approximate formulas for the circumference and area of a circle and connect the models to the actual formulas.							т			ο		ο
7.9	<b>Expressions, equations, and relationships.</b> The student applies man expected to:	themat	ical pro	cess st	andaro	ls to so	lve gec	ometric	probler	ns. The	e stude	nt is	
7.9A	Solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and triangular pyramids. <i>Readiness</i>								т		ο		т
7.9B	Determine the circumference and area of circles. <b>Readiness</b>							Т			0		Т
7.9C	Determine the area of composite figures containing combinations of rectangles, squares, parallelograms, trapezoids, triangles, semicircles, and quarter circles. <b>Readiness</b>							т			0		т
7.9D	Solve problems involving the lateral and total surface area of a rectangular prism, rectangular pyramid, triangular prism, and triangular pyramid by determining the area of the shape's net. <i>Supporting</i>								т		0		ο

		1 <sup>st</sup>	1 <sup>st</sup> SW 2 <sup>nd</sup> SW		3 <sup>rd</sup> SW		4 <sup>th</sup> SW		V 5 <sup>th</sup> S		6 <sup>th</sup>	SW	
		1	2	3	4	5	6	7	8	9	10	11	12
7.10	<b>Expressions, equations, and relationships.</b> The student applies material represent situations. The student is expected to:	themati	cal pro	cess st	andard	s to us	e one-v	variable	equati	ons an	d inequ	alities	Ó
7.10A	Write one-variable, two-step equations and inequalities to represent constraints or conditions within problems. <i>Supporting</i>		т	0	ο			ο	ο		0	т	0
7.10B	Represent solutions for one-variable, two-step equations and inequalities on number lines. <i>Supporting</i>		Т	0	ο			ο	0		0	т	Ο
7.10C	Write a corresponding real-world problem given a one-variable, two- step equation or inequality. <i>Supporting</i>		т	0	ο			ο	ο		0	т	Ο
7.11	<b>Expressions, equations, and relationships.</b> The student applies mat The student is expected to:	themati	cal pro	cess st	andard	s to soi	ve one	-variab	le equa	ations a	nd ineq	qualities	<u>}.</u>
7.11A	Model and solve one-variable, two-step equations and inequalities. <i>Readiness</i>		т	0	ο			ο	ο		0	т	ο
7.11B	Determine if the given value(s) make(s) one-variable, two-step equations and inequalities true. Supporting		т	0	ο			ο	ο		0	т	0
7.11C	Write and solve equations using geometry concepts, including the sum of the angles in a triangle, and angle relationships. <i>Supporting</i>		т	0	о			о	о		0	0	т
7.12	<b>Measurement and data.</b> The student applies mathematical process st to:	andard	s to us	e statis	tical rep	oresent	ations	to anal	yze dat	a. The	studen	t is exp	ected
7.12A	Compare two groups of numeric data using comparative dot plots or box plots by comparing their shapes, centers, and spreads. <i>Readiness</i>									т	0		
7.12B	Use data from a random sample to make inferences about a population. Supporting									т	0		
7.12C	Compare two populations based on data in random samples from these populations, including informal comparative inferences about differences between the two populations. <i>Supporting</i>									Т	0		
7.13	<b>Personal financial literacy.</b> The student applies mathematical procestone's life as a knowledgeable consumer and investor. The student is e	s stand xpected	lards to d to:	develo	op an e	conomi	c way o	of think	ing and	l proble	m solvi	ing use	ful in
7.13A	Calculate the sales tax for a given purchase and calculate income tax for earned wages. <i>Supporting</i>	т	0	0	ο						0	0	

		1 <sup>st</sup>	SW 2 <sup>nd</sup> SW		SW	3 <sup>rd</sup> SW		W 4 <sup>th</sup>		W 5 <sup>th</sup> SV		6 <sup>th</sup>	SW
		1	2	3	4	5	6	7	8	9	10	11	12
7.13B	Identify the components of a personal budget, including income; planned savings for college, retirement, and emergencies; taxes; and fixed and variable expenses, and calculate what percentage each category comprises of the total budget. <i>Supporting</i>			т						т	0		
7.13C	Create and organize a financial assets and liabilities record and construct a net worth statement. Supporting	т									0		
7.13D	Use a family budget estimator to determine the minimum household budget and average hourly wage needed for a family to meet its basic needs in the student's city or another large city nearby. <i>Supporting</i>		т								0		
7.13E	Calculate and compare simple interest and compound interest earnings. <i>Supporting</i>		т	0							0	0	
7.13F	Analyze and compare monetary incentives, including sales, rebates, and coupons. Supporting		т	0	0						0	Ο	
	The provisions of subchapter §111.27 were adopted by the State Bo and to be implemented beginnin	ard of E g with t	Educati the 201	on to b 4-2015	e effec 5 schoo	tive Se <sub>l</sub> I year.	ptembe	er 10, 2	012, 37	7 TexRe	eg 7109	)	