Everest

2022 – 2023 Scope & Sequence
Grade 7 Math

Revised 5/10/2022

1st Quarter (44 Days)			
Resources:			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
1st: Aug 10-12 *(3 days)*	**Introduction/ Assessment**	Assessment Policies & Procedures Behavior expectations: CHAMPS	
2nd: Aug 15-19 *(5 days)*	**Unit - 1 Rational Numbers**	TSWL: Rational Numbers Relationships between rational numbers Add and Subtract Rational Numbers Multiply and Divide Integers Add, Subtract, Multiply, and Divide Fractions and Mixed Numbers	7.2 Number and operations. The student applies mathematical process standards to represent and use rational numbers in a variety of forms. 7.3(A) add, subtract, multiply, and divide rational numbers fluently 7.3(B) apply and extend previous understandings of operations to solve problems using addition, subtraction, multiplication, and division of rational numbers
3rd: Aug 22-26 *(3 days)*	**Unit - 1 Rational Numbers**	TSWL: Rational Numbers Relationships between rational numbers Add and Subtract Rational Numbers Multiply and Divide Integers Add, Subtract, Multiply, and Divide Fractions and Mixed Numbers	7.2 Number and operations. The student applies mathematical process standards to represent and use rational numbers in a variety of forms. 7.3(A) add, subtract, multiply, and divide rational numbers fluently 7.3(B) apply and extend previous understandings of operations to solve problems using addition, subtraction, multiplication, and division of rational numbers
4th: Aug 29- Sep 2 *(5 days)*	**Unit - 1 Rational Numbers**	TSWL: Rational Numbers Relationships between rational numbers Add and Subtract Rational Numbers Multiply and Divide Integers Add, Subtract, Multiply, and Divide Fractions and Mixed Numbers	7.2 Number and operations. The student applies mathematical process standards to represent and use rational numbers in a variety of forms. 7.3(A) add, subtract, multiply, and divide rational numbers fluently 7.3(B) apply and extend previous understandings of operations to solve problems using addition, subtraction, multiplication, and division of rational numbers
5th: Sept 6-9 Labor Day Holiday on Monday 9/5 *(4 days)*	**Unit - 2 Proportional Relationships**	TSWL: Unit rates Complex fractions Convert unit rates Proportional and non- proportional relationships Constant of proportionality Rate of change Graph proportional relationships	7.4(A) represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including d = rt 7.4(B) calculate unit rates from rates in mathematical and real-world problems 7.4(C) determine the constant of proportionality (k = y/x) within mathematical and real-world problems

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			7.4(D) solve problems involving ratios, rates, and percents, including multi step problems involving percent increase and percent decrease, and financial literacy problems 7.4(E) convert between measurement systems, including the use of proportions and the use of unit rates
6th: Sept 12-16 *(5 days)*	**Unit - 2 Proportional Relationships**	TSWL: Unit rates Complex fractions Convert unit rates Proportional and non- proportional relationships Constant of proportionality Rate of change Graph proportional relationships	7.4(A) represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including d = rt 7.4(B) calculate unit rates from rates in mathematical and real-world problems 7.4(C) determine the constant of proportionality (k = y/x) within mathematical and real-world problems 7.4(D) solve problems involving ratios, rates, and percents, including multi step problems involving percent increase and percent decrease, and financial literacy problems 7.4(E) convert between measurement systems, including the use of proportions and the use of unit rates
7th: Sept 19-22 **PD Day Friday 9/23** *(4 days)*	**Unit - 2 Proportional Relationships**	TSWL: Unit rates Complex fractions Convert unit rates Proportional and non- proportional relationships Constant of proportionality Rate of change Graph proportional relationships	7.4(A) represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including d = rt 7.4(B) calculate unit rates from rates in mathematical and real-world problems 7.4(C) determine the constant of proportionality (k = y/x) within mathematical and real-world problems 7.4(D) solve problems involving ratios, rates, and percents, including multi step problems involving percent increase and percent decrease, and financial literacy problems 7.4(E) convert between measurement systems, including the use of proportions and the use of unit rates
8th: Sept 26-30 *(5 days)*	**Unit - 3 Apply Proportionality to Percent**	TSWL: Estimation of percentage Percent of a number Percent proportions Percent equations Percent of change Sales tax, tip, markup, and discount Simple & compound interest	7.4(D) solve problems involving ratios, rates, and percents, including multi step problems involving percent increase and percent decrease, and financial literacy problems 7.13(E) calculate and compare simple interest and compound interest earnings

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Resources:			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
9th: Oct 3-7 *(5 days)*	**Unit - 3 Apply Proportionality to Percent**	TSWL: Estimation of percentage Percent of a number Percent proportions Percent equations Percent of change Sales tax, tip, markup, and discount Simple & compound interest	7.4(D) solve problems involving ratios, rates, and percents, including multi step problems involving percent increase and percent decrease, and financial literacy problems 7.13(E) calculate and compare simple interest and compound interest earnings
10th: Oct 10-14 *(5 days)*	**Unit - 3 Apply Proportionality to Percent**	TSWL: Estimation of percentage Percent of a number Percent proportions Percent equations Percent of change Sales tax, tip, markup, and discount Simple & compound interest	7.4(D) solve problems involving ratios, rates, and percents, including multi step problems involving percent increase and percent decrease, and financial literacy problems 7.13(E) calculate and compare simple interest and compound interest earnings

2nd Quarter (45 Days)			
Resources:			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
1st: Oct 17-21 *(5 days)*	**Unit - 4 Apply Proportionality to Geometry**	TSWL: Scale drawings Attributes of similar figures Changes in dimensions - perimeter and area Circumference of a circle	7.5(A) generalize the critical attributes of similarity, including ratios within and between similar shapes 7.5(B) describe pi as the ratio of the circumference of a circle to its diameter 7.5(C) solve mathematical and real-world problems involving similar shape and scale drawings
2nd: Oct 24-28 *(5 days)*	**Unit - 4 Apply Proportionality to Geometry**	TSWL: Scale drawings Attributes of similar figures Changes in dimensions - perimeter and area Circumference of a circle	7.5(A) generalize the critical attributes of similarity, including ratios within and between similar shapes 7.5(B) describe pi as the ratio of the circumference of a circle to its diameter 7.5(C) solve mathematical and real-world problems involving similar shape and scale drawings
3rd: Nov 1-4 **PT Conf Mon 10/31** *(4 days)*	**Unit - 4 Apply Proportionality to Geometry**	TSWL: Scale drawings Attributes of similar figures	7.5(A) generalize the critical attributes of similarity, including ratios within and between similar shapes

2nd Quarter (45 Days)			
Resources:			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
		Changes in dimensions - perimeter and area Circumference of a circle	7.5(B) describe pi as the ratio of the circumference of a circle to its diameter 7.5(C) solve mathematical and real-world problems involving similar shape and scale drawings
4th: Nov 5-9 *(5 days)*	**Unit - 5 Apply Proportionality to Probability**	TSWL: Probability of simple events Sample spaces Theoretical probability Experimental probability Probability of compound events Simulations Independent and dependent events	7.6(A) represent sample spaces for simple and compound events using lists and tree diagrams 7.6(C) make predictions and determine solutions using experimental data for simple and compound events 7.6(D) make predictions and determine solutions using theoretical probability for simple and compound events 7.6(E) find the probabilities of a simple event and its complement and describe the relationship between the two 7.6(H) solve problems using qualitative and quantitative predictions and comparisons from simple experiments 7.6(I) determine experimental and theoretical probabilities related to simple and compound events using data and sample spaces
5th: Nov 7-11 *(5 days)*	**Unit - 5 Apply Proportionality to Probability**	TSWL: Probability of simple events Sample spaces Theoretical probability Experimental probability Probability of compound events Simulations Independent and dependent events	7.6(A) represent sample spaces for simple and compound events using lists and tree diagrams 7.6(C) make predictions and determine solutions using experimental data for simple and compound events 7.6(D) make predictions and determine solutions using theoretical probability for simple and compound events 7.6(E) find the probabilities of a simple event and its complement and describe the relationship between the two 7.6(H) solve problems using qualitative and quantitative predictions and comparisons from simple experiments 7.6(I) determine experimental and theoretical probabilities related to simple and compound events using data and sample spaces
6th: Nov 14-18 *(2 days)*	**Unit - 5 Apply Proportionality to Probability**	TSWL: Probability of simple events Sample spaces Theoretical probability Experimental probability Probability of compound events Simulations Independent and dependent events	7.6(A) represent sample spaces for simple and compound events using lists and tree diagrams 7.6(C) make predictions and determine solutions using experimental data for simple and compound events 7.6(D) make predictions and determine solutions using theoretical probability for simple and compound events 7.6(E) find the probabilities of a simple event and its complement and describe the relationship between the two

2nd Quarter (45 Days)			
Resources:			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
			7.6(H) solve problems using qualitative and quantitative predictions and comparisons from simple experiments 7.6(I) determine experimental and theoretical probabilities related to simple and compound events using data and sample spaces
7th: Nov 21-25 Thanksgiving *(0 days)*	**Thanksgiving Holiday**		
8th: Nov 28-Dec 2 *(5 days)*	**Unit - 6 Linear Relationships**	TSWL: Linear relationships Equations of linear relationships Slope Slope intercept form Equations from tables and graphs	7.7 Expressions, equations, and relationships. The student applies mathematical process standards to represent linear relationships using multiple representations 7.7(A) represent linear relationships using verbal descriptions, tables, graphs, and equations that simplify to the form y = mx + b
9th: Dec 5-9 *(5 days)*	**Unit - 6 Linear Relationships**	TSWL: Linear relationships Equations of linear relationships Slope Slope intercept form Equations from tables and graphs	7.7 Expressions, equations, and relationships. The student applies mathematical process standards to represent linear relationships using multiple representations 7.7(A) represent linear relationships using verbal descriptions, tables, graphs, and equations that simplify to the form y = mx + b
10th: Dec 12-16 *(5 days)*	**Unit - 6 Linear Relationships**	TSWL: Linear relationships Equations of linear relationships Slope Slope intercept form Equations from tables and graphs	7.7 Expressions, equations, and relationships. The student applies mathematical process standards to represent linear relationships using multiple representations 7.7(A) represent linear relationships using verbal descriptions, tables, graphs, and equations that simplify to the form y = mx + b

3rd Quarter (42 Days)			
Resources:			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
1st : Jan 4- 6 Tues 1/3 PD Day *(3 days)*	**Unit - 7 Equations and Inequalities**	TSWL: To solve one step equations To solve equations with rational coefficients To solve and write two step equations	7.10(A) write one-variable, two-step equations and inequalities to represent constraints or conditions within problems 7.10(C) write a corresponding real-world problem given a one-variable, twostep equation or inequality

3rd Quarter (42 Days)			
Resources:			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
		To solve two step equations using the distributive property To solve one step inequalities To solve and write two step inequalities	7.11(A) model and solve one-variable, two-step equations and inequalities 7.11(B) determine if the given value(s) make(s) one-variable, two-step equations and inequalities true
2nd: Jan 9- 13 *(5 days)*	**Unit - 7 Equations and Inequalities**	TSWL: To solve one step equations To solve equations with rational coefficients To solve and write two step equations To solve two step equations using the distributive property To solve one step inequalities To solve and write two step inequalities	7.10(A) write one-variable, two-step equations and inequalities to represent constraints or conditions within problems 7.10(C) write a corresponding real-world problem given a one-variable, twostep equation or inequality 7.11(A) model and solve one-variable, two-step equations and inequalities 7.11(B) determine if the given value(s) make(s) one-variable, two-step equations and inequalities true
3rd : Jan 16- 20 **Mon 1/16 MLK Holiday** *(4 days)*	**Unit - 7 Equations and Inequalities**	TSWL: To solve one step equations To solve equations with rational coefficients To solve and write two step equations To solve two step equations using the distributive property To solve one step inequalities To solve and write two step inequalities	7.10(A) write one-variable, two-step equations and inequalities to represent constraints or conditions within problems 7.10(C) write a corresponding real-world problem given a one-variable, twostep equation or inequality 7.11(A) model and solve one-variable, two-step equations and inequalities 7.11(B) determine if the given value(s) make(s) one-variable, two-step equations and inequalities true
4th : Jan 23- 27 *(5 days)*	**Unit - 7 Equations and Inequalities**	TSWL: To solve one step equations To solve equations with rational coefficients To solve and write two step equations To solve two step equations using the distributive property To solve one step inequalities To solve and write two step inequalities	7.10(A) write one-variable, two-step equations and inequalities to represent constraints or conditions within problems 7.10(C) write a corresponding real-world problem given a one-variable, twostep equation or inequality 7.11(A) model and solve one-variable, two-step equations and inequalities 7.11(B) determine if the given value(s) make(s) one-variable, two-step equations and inequalities true
5th: Jan 30 - Feb 3 *(5 days)*	**Unit - 8 Develop Geometry with algebra**	TSWL: Angle relationships Supplementary & complementary angles Sums of angles in triangles Area of a circle Area of composite figures Volume of prisms Volume of pyramids Surface area of rectangular prisms Surface area of triangular prisms	7.8(A) 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 7.8(C) use models to determine the approximate formulas for the circumference and area of a circle and connect the models to the actual formulas 7.9(A) solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and

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Resources:			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
		Surface area of pyramids	triangular pyramids 7.9(B) determine the circumference and area of circles 7.9(C) determine the area of composite figures containing combinations of rectangles, squares, parallelograms, trapezoids, triangles, semicircles, and quarter circles 7.9(D) 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 7.11(C) write and solve equations using geometry concepts, including the sum of the angles in a triangle, and angle relationship
6th: Feb 6- 10 *(5 days)*	**Unit - 8 Develop Geometry with algebra**	TSWL: Angle relationships Supplementary & complementary angles Sums of angles in triangles Area of a circle Area of composite figures Volume of prisms Volume of pyramids Surface area of rectangular prisms Surface area of triangular prisms Surface area of pyramids	7.8(A) 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 7.8(C) use models to determine the approximate formulas for the circumference and area of a circle and connect the models to the actual formulas 7.9(A) solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and triangular pyramids 7.9(B) determine the circumference and area of circles 7.9(C) determine the area of composite figures containing combinations of rectangles, squares, parallelograms, trapezoids, triangles, semicircles, and quarter circles 7.9(D) 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 7.11(C) write and solve equations using geometry concepts, including the sum of the angles in a triangle, and angle relationship
7th: Feb 13- 17 *(4 days)*	**Unit - 8 Develop Geometry with algebra**	TSWL: Angle relationships Supplementary & complementary angles Sums of angles in triangles Area of a circle	7.8(A) 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

3rd Quarter (42 Days)			
Resources:			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
		Area of composite figures Volume of prisms Volume of pyramids Surface area of rectangular prisms Surface area of triangular prisms Surface area of pyramids	7.8(C) use models to determine the approximate formulas for the circumference and area of a circle and connect the models to the actual formulas 7.9(A) solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and triangular pyramids 7.9(B) determine the circumference and area of circles 7.9(C) determine the area of composite figures containing combinations of rectangles, squares, parallelograms, trapezoids, triangles, semicircles, and quarter circles 7.9(D) 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 7.11(C) write and solve equations using geometry concepts, including the sum of the angles in a triangle, and angle relationship
8th : Feb 20- 24 **Mon 2/20 District PD** *(4 days)*	**Unit - 8 Develop Geometry with algebra**	TSWL: Angle relationships Supplementary & complementary angles Sums of angles in triangles Area of a circle Area of composite figures Volume of prisms Volume of pyramids Surface area of rectangular prisms Surface area of triangular prisms Surface area of pyramids	7.8(A) 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 7.8(C) use models to determine the approximate formulas for the circumference and area of a circle and connect the models to the actual formulas 7.9(A) solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and triangular pyramids 7.9(B) determine the circumference and area of circles 7.9(C) determine the area of composite figures containing combinations of rectangles, squares, parallelograms, trapezoids, triangles, semicircles, and quarter circles 7.9(D) 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 7.11(C) write and solve equations using geometry concepts, including the sum of the angles in a triangle, and angle relationship

3rd Quarter (42 Days)			
Resources:			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
9th: Feb 27 – Mar3 *(5 days)*	**Unit - 9 Statistics and sampling**	TSWL: Bar graphs Dot plots Circle graphs To make a prediction about a population To understand biased and unbiased samples To understand and interpret misleading graphs and statistics Compare populations To select an appropriate display	7.6(F) use data from a random sample to make inferences about a population 7.6(G) solve problems using data represented in bar graphs, dot plots, and circle graphs, including part to whole and part to part comparisons and equivalents 7.12(A) compare two groups of numeric data u sing comparative dot plots or box plots by comparing their shapes, centers, and spreads 7.12(B) use data from a random sample to make inferences about a population 7.12(C) compare two populations based on data in random samples from these populations, including informal comparative inferences about differences between the two populations
10th: 1st: Mar 6- 10 *(5 days)*	**Unit - 9 Statistics and sampling**	TSWL: Bar graphs Dot plots Circle graphs To make predictions about populations Biased and unbiased samples To interpret misleading graphs and statistics To compare populations To select appropriate display	7.6(F) use data from a random sample to make inferences about a population 7.6(G) solve problems using data represented in bar graphs, dot plots, and circle graphs, including part to whole and part to part comparisons and equivalents 7.12(A) compare two groups of numeric data u sing comparative dot plots or box plots by comparing their shapes, centers, and spreads 7.12(B) use data from a random sample to make inferences about a population 7.12(C) compare two populations based on data in random samples from these populations, including informal comparative inferences about differences between the two populations

4th Quarter (49 Days)			
Resources:			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
	Spring Break		
1st: Mar 20- 24 **3/23 Ramadan Begins** *(5 days)*	**Unit - 9 Statistics and sampling**	TSWL: Bar graphs Dot plots Circle graphs	7.6(F) use data from a random sample to make inferences about a population

4th Quarter (49 Days)			
Resources:			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
		To make predictions about populations Biased and unbiased samples To interpret misleading graphs and statistics To compare populations To select appropriate display	7.6(G) solve problems using data represented in bar graphs, dot plots, and circle graphs, including part to whole and part to part comparisons and equivalents 7.12(A) compare two groups of numeric data u sing comparative dot plots or box plots by comparing their shapes, centers, and spreads 7.12(B) use data from a random sample to make inferences about a population 7.12(C) compare two populations based on data in random samples from these populations, including informal comparative inferences about differences between the two populations
2nd: Mar 27 - 31 *(5 days)*	**Unit - 10 Personal Financial Literacy**	TSWL: Sales and income tax Personal and family budgets Assets and liabilities Simple & compound interest Monetary incentives	7.13(A) calculate the sales tax for a given purchase and calculate income tax for earned wages 7.13(B) 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 7.13(C) create and organize a financial assets and liabilities record and construct a net worth statement 7.13(D) 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 7.13(E) calculate and compare simple interest and compound interest earnings 7.13(F) analyze and compare monetary incentives, including sales, rebates, and coupons
3rd: Apr 3- 7 *(5 days)*	**Unit - 10 Personal Financial Literacy**	TSWL: Sales and income tax Personal and family budgets Assets and liabilities Simple & compound interest Monetary incentives	7.13(A) calculate the sales tax for a given purchase and calculate income tax for earned wages 7.13(B) 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 7.13(C) create and organize a financial assets and liabilities record and construct a net worth statement

4th Quarter (49 Days)			
Resources:			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
			7.13(D) 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 7.13(E) calculate and compare simple interest and compound interest earnings 7.13(F) analyze and compare monetary incentives, including sales, rebates, and coupons
4th: Apr 10- 14 **Fri 4/14 Ramadan break starts** *(4 days)*	**Review**		
5th: April 17- 21 **Ramadan / Eid Break** *(0 days)*	**EID**		
6th: Apr 24- 28 *(5 days)*	**Review**		
7th: May 1- 5 *(5 days)*	**STAAR**		
8th: May 8- 12 *(5 days)*	**STAAR**		
9th: May 15- 19 *(5 days)*	**Final Benchmark**		
10th: May 22- 26 **5/26 Last Day of School** *(5 days)*	**Graduation Preparation**		