Everest Academy

1st Quarter (44 Days)			
Resources: **Algebra 1 (McGraw Hill)**			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS)**
Week 1	Ch 1 – Expressions, Equations, and Functions Lesson 1-4	**TSW solve problems with:** Expressions and Variables Order of Operations Properties of Numbers Distributive Property	A.10(D)
Week 2	Ch 1 – Expressions, Equations, and Functions Lesson 5-8	**TSW solve problems with:** Equations Relations Functions Interpreting Graphs of Functions	A.5(A) A.2(A) A.12(A)(B) A.3 (C) A.7(A)
Week 3	Ch 2- Linear Equations Lesson 1-5	**TSW solve problems with:** Writing Equations Solving One Step Equations Solving Multi-Step Equations Solving Equation with the Variable on each side Solving Equations involving absolute value	A.5(A)
Week 4	Ch 2 Continued Lessons 6-9	**TSW solve problems with:** Ratios and Proportions Percent of Change Literal Equations and Dimensional Analysis Weighted Averages	A.12(E) A.5(A)
Week 5	Ch 3 – Linear Functions Lessons 1-3	**TSW solve problems with:** Graphing Linear Equations Zeros of Linear Functions Rate of Change and Slope	A.2(A)(B) A.3 (A) (B)(C)
Week 6	Ch 3 Continued Lessons 4-6	**TSW solve problems with:** Direct Variation Arithmetic Sequences as Linear Functions Proportional and Nonproportional Relationships Solving Multi step equations	A.2(A) A.12 (D)
Week 7	Ch 4 – Equations of Linear Functions Lessons 1-4	**TSW solve problems with:** Graphing Equations in Slope Intercept Form Writing Equations in Slope Intercept form	A.3 (A) (C) (E) A. 2 (B) (C) (E) (F) (G)

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Resources:
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Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS)
		Writing Equations in Point Slope Form Parallel and Perpendicular Lines	
Week 8	Ch 4- Continued Lessons 5-7	**TSW solve problems with:** Scatter Plots and Lines of Fit Regression and Median Fit Lines Inverse Linear Functions	A. 4 (A) (B) (C)
Week 9	**Review and Assessment**	**1st Benchmark**	Review
Week 10	**Review**	**Review**	**Review**

2nd Quarter (43 Days)

Resources:
Algebra 1 (McGraw Hill)

Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS)
Week 1	**Chapter 5 – Linear Inequalities** **Lessons 1-4**	**TSW solve problems with:** Solving Inequalities by Addition and Subtraction Solving Inequalities by multiplication and division Solving Multi Step Inequalities Solving Compound Inequalities	A.2 (H) A.5 (B)
Week 2	**Ch 5 Continued** **Lessons 5-6**	**TSW solve problems with:** Inequalities involving absolute values Graphing inequalities in two variables	A.2(H) A.3(D)
Week 3	**Ch 6- Systems of Linear Equations and Inequalities** **Lessons 1-4**	**TSW solve problems with:** Graphing Systems of Equations Substitution Elimination using Addition and Subtraction Elimination using Multiplication	A.3(F) (G) A.2(I) A.5(C)
Week 4	**Ch.6 Continued** **Lesson 5-6**	**TSW solve problems with:** Applying Systems of Linear Equations Systems of Inequalities	A.2(I) A.5(C) A.3 (H)

2nd Quarter (43 Days)			
<u>Resources:</u> Algebra 1 (McGraw Hill)			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS)**
Week 5	**Chapter 7 - Exponents and Exponential Functions** **Lessons 1-4**	**TSW solve problems with:** Multiplication Properties of Exponents Division Properties of Exponents Rational Exponents Scientific Notation	A. 11 (A) (B)
Week 6	**Ch 7 Continued** **Lessons 5-8**	**TSW solve problems with:** Exponential Functions Growth and Decay Geometric Sequences as Exponential Functions Recursive Formulas	A.9 (A) (B) (C) (D) (E) A.12 (C) (D)
Week 7	**Ch 8 – Quadratic Expressions and Equations** **Lessons 1-4**	**TSW solve problems with:** Adding and Subtracting Polynomials Multiplying a Polynomial by a Monomial Multiplying Polynomials Special Products	A.10 (A) (B) (D)
Week 8	**Review**	**2nd Benchmark**	Review
Week 9	**Ch. 8 Continued** **Lessons 5-9**	**TSW solve problems with:** Using the Distributive Property Solving $x^2 + bx + c = 0$ Solving $ax^2 + bx + c = 0$ Differences of Square Perfect Squares	A.8 (A) A.10 (E) (F)

3rd Quarter (43 Days)			
<u>Resources:</u> Algebra 1 (McGraw Hill)			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS)**
Week 1	**Ch 9- Quadratic Functions and Equations** **Lessons 1-4**	**TSW solve problems with:** Graphing Quadratic Functions Solving Quadratic Equations by Graphing Transformations of Quadratic Functions	A.6(A) (B) (C) A.7 (A) (B) (C) A.8 (A)

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3rd Quarter (43 Days)			
Resources: Algebra 1 (McGraw Hill)			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS)**
		Solving Quadratic Equations by Completing the Square	
Week 2	**Ch 9 Continued** **Lessons 5-7**	**TSW solve problems with:** Solving Quadratic Equations by Using the Quadratic Formula Analyzing Functions with Successive Differences	A.8 (A) (B) A.9(E)
Week 3	**Review**	**1ˢᵗ Mock STAAR**	Review
Week 4	**Ch 10- Radical Functions and Geometry** **Lessons 1-3**	**TSW solve problems with:** Square Root Functions Simplifying Radical Expressions Operations with Radical Expressions	A.11 (A)
Week 5	**Ch 10 Continued** **Lessons 4-6**	**TSW solve problems with:** Radical Equations The Pythagorean Theorem Trigonometric Ratios	A.11 (A)
Week 6	**Ch 11- Rational Functions and Equations** **Lessons 1-4**	**TSW solve problems with:** Inverse Variation Rational Functions Simplifying Rational Expressions Multiplying and Dividing Rational Expressions	A.10 (C)
Week 7	**Ch.11 Continued** **Lessons 5-8**	**TSW solve problems with:** Dividing Polynomials Adding and Subtracting Rational Expressions Mixed Expressions and Complex Fractions Rational Equations	A.10 (C)
Week 8	**Chapter 12- Statistics and Probability** **Lessons 1-4**	**TSW solve problems with:** Samples and Studies Statistics and Parameters Distribution of Data Comparing Sets of Data	
Week 9	**Ch. 12 Continued** **Lessons 5-8**	**TSW solve problems with:** Simulation Permutations and Combinations Probability of Compound Events	

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3rd Quarter (43 Days)			
Resources: Algebra 1 (McGraw Hill)			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS)**
		Probability Distributions	

4th Quarter (46 Days)			
Resources: Algebra 1 (McGraw Hill)			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
Week 1	**Review and assessment**	**3rd Mock STAAR**	Review
Week 2	**Review and assessment**	Review and assessment	Review
Week 3	**Review and assessment**	**STAAR TBD:**	Review
Week 4	**Math Labs and Projects**	Review	Review
Week 5	**Review and assessment**	Review and assessment	Review
Week 6	**Math Labs and Projects**	Review	Review
Week 7	**Math Labs and Projects**	**STAAR TBD:**	Review
Week 8	**Review and assessment**	**Review**	Review
Week 9	**Review and assessment**	**Final Benchmark**	Review
Week 10	**Graduation Preparation**	Review	Review