### Unit 1: Linear, Quadratic and Polynomial Relationships Chapter 1: Lines and Parabolas \_\_\_\_ 1.1 Modeling with Linear Functions \_\_\_\_ 1.2\_Day 1 Characteristics of Quadratic Functions \_\_\_\_ 1.2\_Day 2 Characteristics of Quadratic Functions \_\_\_\_ 1.4 Modeling with Quadratic Functions Ch. 1 - Lines and Parabolas Test Score Chapter 2: Quadratic Equations and Complex Numbers 2.0Day 1 Factoring $x^2 + bx + c$ \_\_\_\_ 2.0\_Day 2 Factoring ax^2 + bx + c \_\_\_\_ 2.1\_Day 1 Solving Quadratic Equations \_\_\_\_ 2.1\_Day 2 Solving Quadratic Equations Ch. 2 - Quad Equations and Complex Numbers Quiz Score \_\_\_\_ 2.2\_Day 1 Complex Numbers \_\_\_\_ 2.2\_Day 2 Complex Numbers \_\_\_\_ 2.3 Completing the Square \_\_\_\_ 2.4\_Day 1 Using the Quadratic Formula \_\_\_\_ 2.4\_Day 2 Using the Quadratic Formula Ch. 2 - Quad Equations and Complex Numbers Test Score\_\_\_\_ Chapter 3: Polynomial Operations \_\_\_\_ 3.1\_Day 1 Graphing Polynomial Functions \_\_\_\_ 3.1\_Day 2 Graphing Polynomial Functions \_\_\_\_ 3.2\_Day 1 Adding, Subtracting, and Multiplying Polynomials \_\_\_\_ 3.2\_Day 2 Adding, Subtracting, and Multiplying Polynomials \_\_\_\_ 3.2\_Day 3 Adding, Subtracting, and Multiplying Polynomials Ch. 3 - Polynomial Operations Quiz Score \_\_\_\_ 3.3\_Day 1 Dividing Polynomials \_\_\_\_ 3.3\_Day 2 Dividing Polynomials \_\_\_\_ 3.4\_Day 1 Factoring Polynomials \_\_\_ 3.4\_Day 2 Factoring Polynomials Ch. 3 - Polynomial Operations Test Score

Chapter 4: Solving Polynomial Functions	
4.1_Day 1 Solving Polynomial Equations	
4.1_Day 2 Solving Polynomial Equations	
4.1_Day 3 Solving Polynomial Equations	
4.2_Day 1 The Fundamental Theorem of Algebra	
4.2_Day 2 The Fundamental Theorem of Algebra	
Ch. 4 - Solving Polynomial Functions Quiz	Score
4.3 Analyzing Graphs of Polynomial Functions	
4.4 Modeling with Polynomial Functions	
Ch. 4 - Solving Polynomial Functions Test	Score
Unit 1: Linear, Quadratic, and Polynomial Relationships Test	Score
Unit 1: Math Journal Entries	Score/Average
	•
Unit 2: Radical, Rational, Exponential, and Logarithmic Function	•
Unit 2: Radical, Rational, Exponential, and Logarithmic Function	•
Unit 2: Radical, Rational, Exponential, and Logarithmic Function Chapter 5: Radical and Rational Functions	<u>ons</u>
Unit 2: Radical, Rational, Exponential, and Logarithmic Function  Chapter 5: Radical and Rational Functions  5.1 nth Roots and Rational Exponents	ons als
Unit 2: Radical, Rational, Exponential, and Logarithmic Function Chapter 5: Radical and Rational Functions 5.1 nth Roots and Rational Exponents 5.2_Day 1 Properties of Rational Exponents and Radical	ons als
5.2_Day 1 Properties of Rational Exponents and Radico 5.2_Day 2 Properties of Rational Exponents and Radic	ons  als als Score
Unit 2: Radical, Rational, Exponential, and Logarithmic Function  Chapter 5: Radical and Rational Functions  5.1 nth Roots and Rational Exponents  5.2_Day 1 Properties of Rational Exponents and Radical  5.2_Day 2 Properties of Rational Exponents and Radical  Ch. 5 - Radical and Rational Functions Quiz	ons  als als Score
Unit 2: Radical, Rational, Exponential, and Logarithmic Function  Chapter 5: Radical and Rational Functions  5.1 nth Roots and Rational Exponents  5.2_Day 1 Properties of Rational Exponents and Radical  5.2_Day 2 Properties of Rational Exponents and Radical  Ch. 5 - Radical and Rational Functions Quiz  5.4_Day 1 Solving Radical Equations and Inequalities	ons  als als Score
Unit 2: Radical, Rational, Exponential, and Logarithmic Function  Chapter 5: Radical and Rational Functions  5.1 nth Roots and Rational Exponents  5.2_Day 1 Properties of Rational Exponents and Radica  5.2_Day 2 Properties of Rational Exponents and Radica  Ch. 5 - Radical and Rational Functions Quiz  5.4_Day 1 Solving Radical Equations and Inequalities  5.4_Day 2 Solving Radical Equations and Inequalities	ons  als als Score
Unit 2: Radical, Rational, Exponential, and Logarithmic Function  Chapter 5: Radical and Rational Functions  5.1 nth Roots and Rational Exponents  5.2 Day 1 Properties of Rational Exponents and Radica  5.2 Day 2 Properties of Rational Exponents and Radica  Ch. 5 - Radical and Rational Functions Quiz  5.4 Day 1 Solving Radical Equations and Inequalities  5.4 Day 2 Solving Radical Equations and Inequalities  5.5 Performing Function Operations	ons  als als Score

Chapter 6: Exponential and Logarithmic Functions	
6.1_Day 1 Exponential Growth and Decay Functions	
6.1_Day 2 Exponential Growth and Decay Functions	
6.2 The Natural Base e	
6.3_Day 1 Logarithms and Logarithmic Functions	
6.3_Day 2 Logarithms and Logarithmic Functions	
Ch. 6 - Exponential and Logarithmic Functions Quiz	Score
6.5_Day 1 Properties of Logarithms	
6.5_Day 2 Properties of Logarithms	
6.6_Day 1 Solving Exponential and Logarithmic Equation	s
6.6_Day 2 Solving Exponential and Logarithmic Equation	ns
Ch. 6 - Exponential and Logarithmic Functions Test	Score
Chapter 7: Rational Functions 7.1 Inverse Variation	
7.2_Day 1 Graphing Rational Functions	
7.2_Bay 2 Graphing Rational Functions	
7.3_Day 1 Multiplying and Dividing Rational Expressions	
7.3_Day 2 Multiplying and Dividing Rational Expressions	
	Score
7.4_Day 1 Adding and Subtracting Rational Expressions	
7.4_Day 2 Adding and Subtracting Rational Expressions	
7.5 Solving Rational Equations	
Ch. 7 - Rational Functions Test	Score
Unit 2: Radical, Rational, Exponential and Logarithmic Functions	Test
	Score
Unit 2: Math Journal Entries	
	Score/Average

#### Unit 3: Transformations, Systems of Equations and Matrices

Chapter 8: Transformations	
8.1_Day 1 Parent Functions and Transformations	
8.1_Day 2 Parent Functions and Transformation	
8.2_Day 1 Transformations of Linear and Absolute Valu	e Functions
8.2_Day 2 Transformations of Linear and Absolute Valu	ue Functions
Ch. 8 - Transformations Quiz	Score
8.3 Transformations of Quadratic Functions	
8.4 Transformations of Polynomial Functions	
8.5 Graphing and Transformations of Radical Functions	
8.6_Day 1 Transformations of Exponential and Logarith	mic Functions
8.6_Day 2 Transformations of Exponential and Logarith	nmic Functions
Ch. 8 - Transformations Test	Score
Chapter 9: Systems of Equations and Matrices	
9.1 Solving Linear Systems	
9.2 Solving Nonlinear Systems	
9.3 Quadratic Inequalities	
Ch. 9 - Systems of Equations and Matrices Quiz	Score
9.4 Matrix Operations	
9.5 Multiplying Matrices	
Ch. 9 - Matrices and Determinants Quiz	Score
9.6 Determinants and Cramer's Rule	
9.7 Identity and Inverse Matrices	
— 9.8 Solving Systems Using Inverse and Augmented Mat	rices
Ch. 9 - Matrices and Determinants Test	Score
Unit 3: Transformations, Systems and Matrices Test	Score
Unit 3: Math Journal Entries	Score/Average

\*\*\*End of Third Quarter

### Unit 4: Conic Sections, Sequence and Series Chapter 10: Conic Sections \_\_\_\_ 10.1 Conic Section Overview \_\_\_\_ 10.2 Focus of a Parabola Ch. 10 - Conic Sections Quiz Score \_\_\_\_ \_\_\_ 10.3\_Day 1 The Ellipse \_\_\_\_ 10.3\_Day 2 The Ellipse \_\_\_\_ 10.4\_Day 1 The Hyperbola \_\_\_\_ 10.4\_Day 2 The Hyperbola \_\_\_\_ 10.4\_Day 3 The Hyperbola Ch. 10 - Conic Sections Test Chapter 11: Sequences and Series \_\_\_\_ 11.1\_Day 1 Defining and Using Sequences and Series \_\_\_\_ 11.1\_Day 2 Defining and Using Sequences and Series \_\_\_\_ 11.1\_Day 3 Defining and Using Sequences and Series \_\_\_\_ 11.2\_Day 1 Analyzing Arithmetic Sequences and Series \_\_\_\_ 11.2\_Day 2 Analyzing Arithmetic Sequences and Series Score \_\_\_\_\_ Ch. 11 - Sequences and Series Quiz 1 \_\_\_\_ 11.3\_Day 1 Analyzing Geometric Sequences and Series \_\_\_\_ 11.3\_Day 2 Analyzing Geometric Sequences and Series \_\_\_\_ 11.4 Finding Sums of Infinite Geometric Series Ch. 11 - Sequences and Series Quiz 2 \_\_\_\_ 11.5 Using Recursive Rules with Sequences \_\_\_\_ 11.6\_Day 1 Counting Principles 11.6 Day 2 Counting Principles Ch. 11 - Sequences and Series Test Score \_\_\_\_ Score \_\_\_\_ Unit 4: Conic Sections, Sequences and Series Test

Unit 4: Math Journal Enries

<u> Jnit 5: Mini ACT Review Unit (Optional) - highly recomr</u>	<u>nended for Juniors before April</u>
Trigonometric Ratios and Functions	
9.1 Right Triangle Trigonometry	
9.2_Day 1 Angles and Radian Measure	
9.2_Day 2 Angles and Radian Measure	
9.3 Trigonometric Functions of Any Angle	
Trigonometric Ratios and Functions Test	Score

\*\*\*End of Fourth Quarter / Second Semester