## College Algebra Macing Guide

## Unit 1: Linear, Quadratic and Polynomial Relationships

## Chapter 1: Lines and Parabolas

$\qquad$ 1.1 Modeling with Linear Functions
$\qquad$ 1.2_Day 1 Characteristics of Quadratic Functions
$\qquad$ 1.2_Day 2 Characteristics of Quadratic Functions
$\qquad$ 1.4 Modeling with Quadratic Functions

Ch. 1 - Lines and Parabolas Test
Score $\qquad$

## Chapter 2: Quadratic Equations and Complex Numbers

$\qquad$ 2.0_Day 1 Factoring $x^{\wedge} 2+b x+c$
$\qquad$ 2.0_Day 2 Factoring $a x^{\wedge} 2+b x+c$
__ 2.1_Day 1 Solving Quadratic Equations
__ 2.1_Day 2 Solving Quadratic Equations
Ch. 2 - Quad Equations and Complex Numbers Quiz
Score $\qquad$
__ 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 $\qquad$

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 $\qquad$
-
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 $\qquad$

## ***End of First Quarter

## College Algebra Wacing Guide

Chapter 4: Solving Polynomial Functions
$\qquad$ 4.1_Day 1 Solving Polynomial Equations
$\qquad$ 4.1_Day 2 Solving Polynomial Equations
$\qquad$ 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 $\qquad$
__ 4.3 Analyzing Graphs of Polynomial Functions
__ 4.4 Modeling with Polynomial Functions
Ch. 4 - Solving Polynomial Functions Test
Score $\qquad$

[^0]Score $\qquad$

Unit 1: Math Journal Entries
Score/Average $\qquad$

Unit 2: Radical, Rational, Exponential, and Logarithmic Functions
Chapter 5: Radical and Rational Functions
__ 5.1 nth Roots and Rational Exponents
__ 5.2_Day 1 Properties of Rational Exponents and Radicals
__ 5.2_Day 2 Properties of Rational Exponents and Radicals
Ch. 5 - Radical and Rational Functions Quiz
Score $\qquad$
$\qquad$ 5.4_Day 1 Solving Radical Equations and Inequalities
__ 5.4_Day 2 Solving Radical Equations and Inequalities
$\qquad$ 5.5 Performing Function Operations
_ 5.6_Day 1 Inverse of a Function
__ 5.6_Day 2 Inverse of a Function
Ch. 5 - Radical and Rational Functions Test
Score $\qquad$

## College Algebra Macing Guide

## Chapter 6: Exponential and Logarithmic Functions

$\qquad$ 6.1_Day 1 Exponential Growth and Decay Functions
$\qquad$ 6.1_Day 2 Exponential Growth and Decay Functions
$\qquad$ 6.2 The Natural Base e
$\qquad$ 6.3_Day 1 Logarithms and Logarithmic Functions
$\qquad$ 6.3_Day 2 Logarithms and Logarithmic Functions

Ch. 6 - Exponential and Logarithmic Functions Quiz $\qquad$
$\qquad$ 6.5_Day 1 Properties of Logarithms
__ 6.5_Day 2 Properties of Logarithms
__ 6.6_Day 1 Solving Exponential and Logarithmic Equations
__ 6.6_Day 2 Solving Exponential and Logarithmic Equations
Ch. 6 - Exponential and Logarithmic Functions Test
Score $\qquad$

## ***End of Second Quarter / First Semester

## Chapter 7: Rational Functions

_ 7.1 Inverse Variation
$\qquad$ 7.2_Day 1 Graphing Rational Functions
$\qquad$ 7.2_Day 2 Graphing Rational Functions
$\qquad$ 7.3_Day 1 Multiplying and Dividing Rational Expressions
__ 7.3_Day 2 Multiplying and Dividing Rational Expressions
Ch. 7 - Rational Functions Quiz $\qquad$
__ 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 $\qquad$

Unit 2: Radical, Rational, Exponential and Logarithmic Functions Test
Score $\qquad$
Unit 2: Math Journal Entries

## College Algebra Macing Guide

## 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 Value Functions
$\qquad$ 8.2_Day 2 Transformations of Linear and Absolute Value Functions

Ch. 8 - Transformations Quiz
Score $\qquad$
_ 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 Logarithmic Functions
__ 8.6_Day 2 Transformations of Exponential and Logarithmic Functions
Ch. 8 - Transformations Test
Score $\qquad$

## 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 $\qquad$
_ 9.4 Matrix Operations
_ 9.5 Multiplying Matrices
Ch. 9 - Matrices and Determinants Quiz
Score $\qquad$
__ 9.6 Determinants and Cramer's Rule
$\qquad$ 9.7 Identity and Inverse Matrices
_ 9.8 Solving Systems Using Inverse and Augmented Matrices
Ch. 9 - Matrices and Determinants Test

Unit 3: Transformations, Systems and Matrices Test
Score $\qquad$

Unit 3: Math Journal Entries
Score $\qquad$
$\qquad$

## ***End of Third Quarter

## College Algebra Macing Guide

## Unit 4: Conic Sections, Sequence and Series

## Chapter 10: Conic Sections

$\qquad$ 10.1 Conic Section Overview
$\qquad$ 10.2 Focus of a Parabola

Ch. 10 - Conic Sections Quiz
Score $\qquad$
$\qquad$ 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
Score $\qquad$

## Chapter 11: Sequences and Series

$\qquad$ 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

Ch. 11 - Sequences and Series Quiz 1
Score $\qquad$
$\qquad$ 11.3_Day 1 Analyzing Geometric Sequences and Series
$\qquad$ 11.3_Day 2 Analyzing Geometric Sequences and Series
__ 11.4 Finding Sums of Infinite Geometric Series
Ch. 11 - Sequences and Series Quiz 2
Score $\qquad$
__ 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

Unit 4: Conic Sections, Sequences and Series Test
Score $\qquad$

Score $\qquad$

Unit 4: Math Journal Enries

## College Algebra Macing Guide

Unit 5: Mini ACT Review Unit (Optional) - highly recommended for Juniors before April 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


[^0]:    Unit 1: Linear, Quadratic, and Polynomial Relationships Test

