

FULTON HIGH SCHOOL  
2015-2016 PACING GUIDE  
ALGEBRA 2

FIRST SEMESTER

1ST 9 WEEKS

Unit 1: EQUATIONS AND INEQUALITIES

Lesson: Solve Linear Equations

Lesson: Rewrite Formulas and Equations

Lesson: Use Problem Solving Strategies and Models

Lesson: Solve Linear Inequalities

Lesson: Solve Absolute Value Equations and Inequalities

Assessments: Graded Homework, Graded Notebook, Quizzes follow each lesson, Unit Tests (Vocabulary, equation solving and problem solving)

Unit 2: LINEAR EQUATIONS AND FUNCTIONS

Lesson: Represent Relations and Functions

Lesson: Find Slope and Rate of Change

Lesson: Graph Equations of Lines

Lesson: Write Equations of Lines

Lesson: Model Direct Variation

Lesson: Draw Scatter Plots and Best-Fitting Lines

Lesson: Use Absolute Value Functions and Transformations

Lesson: Graph Linear Inequalities in Two Variables

Assessment: Graded Homework, Graded Notebook, Quizzes follow each lesson, Unit Tests (Vocabulary, equation solving and problem solving)

### Unit 3: Linear Systems

Lesson: Solve Linear Systems by Graphing

Lesson: Solve Linear Systems Algebraically

Lesson: Graph Systems of Linear Inequalities

Lesson: Solve Systems of Linear Equations in Three Variables

Assessment: Graded Homework, Graded Notebook, Quizzes follow each lesson, Unit Tests (Vocabulary, equation solving and problem solving)

### Unit 4: Matrices

Lesson: Perform Basic Matrix Operations

Lesson: Multiply Matrices

Lesson: Use Inverse Matrices to Solve Linear Systems

Lesson: Matrices and Graphing Calculators

Assessment: Graded Homework, Graded Notebook, Quizzes follow each lesson, Unit Tests (Vocabulary, equation solving and problem solving)

## 2nd 9 WEEKS

### Unit 5: QUADRATIC FUNCTIONS AND FACTORING

Lesson: Graph Quadratic Functions in Standard Form

Lesson: Graph Quadratic Function in Vertex or Intercept Form

Lesson: Simple Quadratic Factoring

Lesson: Quadratic factoring when “a” does not equal one.

Assessment: Graded Homework, Graded Notebook, Quizzes follow each lesson, Unit Tests (Vocabulary, equation solving and problem solving)

### Unit 6: QUADRATIC FUNCTIONS AND FACTORING

Lesson: Solve Quadratic Equations by Finding Square Roots

Lesson: Perform Operations with Complex Numbers

Lesson: Complete The Square

Lesson: Use the Quadratic Formula and the Discriminant

Assessment: Graded Homework, Graded Notebook, Quizzes follow each lesson, Unit Tests (Vocabulary, equation solving and problem solving)

### Unit 7: Polynomials and Polynomial Functions

Lesson: Use Properties of Exponents

Lesson: Evaluate and Graph Polynomial Functions

Lesson: Add, Subtract, and Multiply Polynomial Functions

Lesson: Factor and Solve Polynomial Equations

Assessment: Graded Homework, Graded Notebook, Quizzes follow each lesson, Unit Tests (Vocabulary, equation solving and problem solving)

## Unit 8: Polynomials and Polynomial Functions

Lesson: Apply the Remainder and Factor Theorems

Lesson: Find the Rational Zeros

Lesson: Apply the Fundamental Theorem of Algebra

Lesson: Write Polynomial Functions and Models

Assessment: Graded Homework, Graded Notebook, Quizzes follow each lesson, Unit Tests (Vocabulary, equation solving and problem solving)