

TRUMBULL PUBLIC SCHOOLS

Trumbull, Connecticut

Honors Algebra I / Geometry A

Mathematics Department

Trumbull High School

2016

(Updated 2025 for new bell schedule)

Curriculum Writing Team

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Tom Zultowski	Teacher
Elizabeth Capobianco	Teacher

Jonathon Budd - Director of Curriculum

Honors Algebra I/Geometry TEACHER PACING GUIDE

FIRST SEMESTER Pre-Algebra

Summer Packet Review

Pretest

3 days

Unit 1: Solving Equations and Inequalities

Solving Multi-Step Equations and Word Problems

Solving Literal Equations

Solving Inequalities

Solving Absolute Value Equations

10 days with assessments

Unit 2: Functions

Relations and Functions

Domain and Range (Interval and Set-Builder Notation)

Function Notation and Evaluating Functions

Operations on Functions

Parent Functions and Applications of Functions

*Performance Task - Pendulum Function

14 days with assessment

Unit 3: Linear Equations and Inequalities

Slope and Slope-Intercept Form

Standard Form

Point-Slope Form

Parallel and Perpendicular Lines

Graphing Linear Inequalities

*Performance Task - State of the States

Scatter Plots and Trend Lines

Technology and Linear Regression

*Enrichment - Outliers

Piecewise Functions

*Performance Task – Linearity is in the Air

19 days with assessment

Unit 4: Systems of Equations

Solving Systems Graphically

Solving Systems by Substitution

Solving Systems by Elimination

Solving Systems of Inequalities Graphically

13 days with assessment

-----Midterm Review----- (59 days)

SECOND SEMESTER

Unit 5: Radicals

Rules of Exponents

5 days with assessment

Unit 6: Exponential Functions

Parameters of Exponential Functions

Exponential Growth and Decay

Modeling Exponential Data

Percent of Change

11 days with assessment

Unit 7: Radicals

Simplifying and Operations with Radicals

5 days with assessment

Unit 8: Polynomials and Quadratic Functions

Adding and Subtracting Polynomials

Multiplying Polynomials including Special Products

Factoring (include factoring by grouping)

Solving Equations by Factoring

Solving Equations by Taking Square Roots
Solving Equations using the Quadratic Formula
Graphing Quadratics
20 days with assessment

Unit 9: Basics of Geometry

Points, Lines, and Planes
Segments, Rays, Parallel Lines, and Planes
Measuring Segments and Angles
Pythagorean Theorem, Midpoints, and Distance Formula
9 days with assessment

Unit 10: Parallel Lines and Triangle Congruence

Properties of Parallel Lines
Polygon Angle Sum Theorem
Proving Triangles Congruent
11 days with assessment

Unit 12: Right Triangle Trigonometry

Sine, Cosine, Tangent
Angles of Elevation and Depression
5 days with assessment

-----Final Review----- (67 days)

