

HHS MATH DEPARTMENT

COURSE: Algebra 1 Essentials I/II
(with Quadratics and Factoring)

1012-1013

RIGOR: Accelerated
(Above grade level)

Average
(On grade level)

Essentials
(Core concepts)

Pre-requisites: Linear Algebra (8th grade)

Course Description: This is the second year of the two-year Algebra sequence and begins where year one (Linear Algebra Plus) leaves off. This course reviews Linear Algebra and continues with the use of polynomials, exponents, factoring, quadratic and exponential functions, rational and radical expressions, and data analysis and probability

Course Syllabus:

Semester 1

Chapter 1: Foundations for Algebra

Chapter 2: Equations

Chapter 3: Inequalities

Chapter 4: Functions

Chapter 5: Linear Functions

Chapter 6: Systems of Equations and Inequalities

Chapter 7: Exponents and Polynomials

Semester 2

Chapter 8: Factoring Polynomials

Chapter 9: Quadratic Functions and Equations

Chapter 10: Data Analysis and Probability

Chapter 11: Exponential and Radical Functions

Chapter 12: Rational Functions and Relations

Minnesota Standards to be Mastered:

<http://education.state.mn.us/MDE/dse/stds/Math/>

Expected Homework: Daily assignments are due the next class period.

Late Work Policies: Late assignments will only be accepted for partial credit until the end of the chapter.

Grade Includes: Tests, Quizzes, Homework