High School Algebra I Syllabus

Course Description

Algebra I serves as the foundation for all high school mathematics. This course develops students' understanding of variables, expressions, equations, functions, and data analysis. Emphasis is placed on problem solving, critical thinking, and real-world application to prepare students for success on the STAAR End-of-Course Exam and future advanced math courses.

Curriculum Overview

Unit	Unit Name	Readiness TEKS	Supporting TEKS
Unit 1	Solving Linear Equations	A.5A	A.5B, A.12E
Unit 2	Domain & Range	A.2A, A.6A	A.12A, A.12B
Unit 3	Graphs of Linear Functions	A.3B, A.3C	A.3A, A.2D, A.3E
Unit 4	Writing Linear Functions	A.2C	A.2B, A.2E, A.2F, A.2G, A.4A–C
Unit 5	Systems of Equations	A.2I, A.5C	A.3F, A.3G
Unit 6	Exponent Rules	A.11B	A.10A, A.10B, A.11A
Unit 7	Inequalities	A.3D	A.2H, A.3H
Unit 8	Quadratic Functions	A.6A, A.7A, A.7C	A.6B, A.6C, A.8B
Unit 9	Factoring Quadratics	A.10E	A.10C, A.10D, A.10F
Unit 10	Solving Quadratics	A.8A	A.7B
Unit 11	Exponential Functions	A.9C, A.9D	A.9A, A.9B, A.9E, A.12C, A.12D

Skills & Standards

- Solve linear equations, inequalities, and systems using multiple methods

- Analyze and graph linear, quadratic, and exponential functions

- Interpret domain and range in various contexts

- Write and compare functions using different representations

- Apply properties of exponents and simplify algebraic expressions

- Factor and solve quadratic equations using appropriate methods

- Evaluate function behavior and determine solutions from graphs or tables

- Apply algebraic reasoning to real-world problems

- Prepare for STAAR EOC and college readiness assessments, including SAT

Grading

Please refer to the Forney ISD Grading Guidelines for grading policies, expectations for late work, reassessments, and academic integrity