



Yearly Overview

ALGEBRA I

2024-2025

Semester 1

Term 1

- **Expressions, Equations, and Inequalities**
 - One Variable, 2-Step with Distributive Property and Variables Both Sides
 - Literal Equations (Math & Scientific Formulas)
 - **Linear Functions**
 - Evaluating Functions
 - Multiple Representations
 - Domain and Range
 - **Linear Equations with Two Variables**
 - Slope/Rate of Change
 - Slope-Intercept form, Point-Slope form, Standard form
 - Linear Applications
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Term 2

- **Linear Function Attributes and Key Features**
 - Transformations
 - Parent functions
 - Parallel and Perpendicular Lines
- **Exponential Functions**
 - Write Equations: Growth and Decay
 - Key Features
 - Graph and Model
 - Interpreting (Real-World)
- **Arithmetic Sequences**
 - Identify Terms
 - Generate Formulas to find the nth term
- **Geometric Sequences**
 - Identify Terms
 - Generate Formulas to find the nth term
- **Linear Regression (With and Without Technology)**
 - Association and Causation (Real-World)
 - Correlation Coefficient
 - Reasonable Fit to Data (Real-World)
- **Linear Inequalities with Two Variables**
 - Graphing Linear Inequalities on a Coordinate Plane
 - Writing Linear Inequalities in Slope-Intercept Form
 - Writing Linear Inequalities from a Real-World Situation
- **Radical Expressions (excluding Rational Exponents)**
 - Simplify, involving Square Roots

Semester Review and Exam: District Exam



Semester 2

Term 3

- **Introduction to Laws of Exponents (Rational)**
 - **Rational Exponents**
 - Laws of Exponents
 - Integral
 - **Polynomial Operations**
 - Add, Subtract, and Multiply Polynomials of Degree One and Degree Two
 - Rewrite Polynomial Expressions in Equivalent Forms using Distributive
 - **Factoring, Including**
 - Perfect Square Trinomials
 - Difference of Two Squares
 - Dividing Polynomials
 - **Quadratic Functions**
 - Key Features and Transformations
 - Writing Equations and Graphing
 - Applications and Modeling
 - **Quadratic Equations**
 - Solving
 - Factoring and Applying the Zero Property
 - Taking Square Roots
 - Quadratic Formula
 - Solving quadratics using the graph
 - Quadratic Applications
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Term 4

- **Solving Systems of Equations**
 - Graphing
 - Writing
 - Table
 - Graph
 - Verbal Description
 - Solving (Mathematical and Real-World)
 - Substitution, Elimination
- **Systems of Linear Inequalities (2 Variables)**
 - Graph linear inequalities
 - Solving (Mathematical and Real-World)

STAAR Review and STAAR ALGEBRA I EOC

TBD

Semester Review and Exam
