



Yearly Overview

8th Grade Mathematics

2019-2020

Semester 1

Term 1

- **Numbers and Operations**
 - Real Number Relationships
 - Order Real Numbers
 - Irrational Numbers
 - Square Roots
 - Scientific Notation
 - **Expressions, Equations, and Relationships**
 - One-variable, Two-Step Equations and Inequalities with Variables on Both Sides
 - Solving, Writing, and Modeling
 - **Proportionality**
 - Rates of Change
 - Slope
 - Graph Proportional Relationships
 - Linear Proportional and Non-Proportional Relationships
 - Tables, Equations, and Graphs
 - Direct Variation
 - **Solving Systems of Equations by Graphing**
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Term 2

- **Proportionality**
 - Linear Relationships Between Bivariate Sets of Data
 - Identify Functions
- **Measurement and Data**
 - Scatterplots
 - Determine Mean Absolute Deviation
- **Two-Dimensional Shapes**
 - Congruency
 - Dilations
 - Similar Shapes
 - Translations, Rotations, Reflections on a Coordinate Plane
 - Scale Factor
- **Expressions, Equations, and Relationships**
 - Sum of the Angles of a Triangle
 - Parallel Lines Cut by a Transversal

District Grade 8 Review and Semester Exam



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Semester 2

Term 3

- **Expressions, Equations, and Relationships**
 - Pythagorean Theorem
 - Lateral and Total Surface Area
 - Volume of a Cylinder
 - Volume of a Cone
 - Volume of a Sphere
 - **Personal Financial Literacy**
 - Simple Interest and Compound Interest
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Term 4

- **Personal Financial Literacy**
 - Interest Rate
 - Investments for College and Retirement
 - Calculate Cost of Repaying a Loan
 - Payment Methods
 - Benefits of Financial Responsibility
 - Cost of Financial Irresponsibility
 - Estimate Cost of College

STAAR Review and Grade 8 STAAR Test

- **Grade 8 Review**
 - Slope Intercept Form
 - Writing and Solving Equations

Grade 8 Semester Exam
