



8th Grade Math Syllabus

Course Description

This course accelerates 7th grade students through the 8th Grade Math TEKS, preparing them for Algebra I in 8th grade. Students engage in deep conceptual learning of functions, proportionality, geometry, and data analysis. Emphasis is placed on critical thinking, multi-step problem solving, and real-world mathematical applications to ensure readiness for high school coursework.

Curriculum Overview

Unit	Unit Name	Readiness TEKS	Supporting TEKS
Unit 1	Similarities & Transformations	8.3C, 8.10C	8.3A, 8.3B, 8.8D, 8.10A, 8.10B, 8.10D
Unit 2	Proportional & Non-Proportional Relationships	8.4B, 8.4C	8.4A, 8.5A, 8.5E, 8.5F, 8.5H
Unit 3	Writing Linear Equations & Functions	8.5I, 8.5G	8.5B
Unit 4	Scatterplots	8.5D	8.5C, 8.11A, 8.11B (<i>Not Assessed: 8.11C</i>)
Unit 5	Equations & Inequalities	8.8C	8.8A, 8.8B, 8.9A
Unit 6	Rational Numbers & Operations	8.2D	8.2A, 8.2B, 8.2C
Unit 7	Pythagorean Theorem	8.7C	8.6C, 8.7D
Unit 8	Personal Financial Literacy	8.12D	8.12A, 8.12C, 8.12G (<i>Not Tested: 8.12B, 8.12C, 8.12F</i>)



Unit 9	Volume & Surface Area	8.7A, 8.7B	8.6A, 8.8D (<i>Not Assessed: 8.6B</i>)
STAAR Review	Cumulative Preparation	—	—
Step Up to Algebra	Transition Support	—	—

Skills & Standards

- Apply transformations and understand similarity in geometric figures
- Analyze and compare proportional and non-proportional relationships
- Write and interpret linear equations and functions
- Use scatterplots to analyze bivariate data and trends
- Solve multi-step equations and inequalities
- Perform operations with rational numbers
- Apply the Pythagorean Theorem to real-world and mathematical problems
- Understand and apply personal financial literacy concepts
- Calculate and analyze volume and surface area
- Strengthen problem-solving and test readiness through STAAR review

Grading

Please refer to the Forney ISD Grading Guidelines for information on assignment expectations, late work, reassessments, and reporting practices.

