

8th Grade Math Syllabus 2026-2027

Course Description

This course accelerates students through the **8th Grade Math TEKS**, providing a rigorous foundation designed to prepare them for **Algebra I**. Students will engage in deep conceptual learning of **functions, proportionality, geometry, and data analysis**. Instruction emphasizes critical thinking, multi-step problem solving, and real-world mathematical applications to ensure readiness for high school coursework.

Curriculum Overview

The following table outlines the modules, date ranges, and specific TEKS (Texas Essential Knowledge and Skills) for the 2026-2027 school year based on the updated district scope and sequence. **Readiness TEKS** are high-priority standards for mastery, while **Supporting TEKS** provide essential foundational context.

Module	Module Name	Date Range	Readiness TEKS	Supporting TEKS
1	Transforming Geometric Objects	Aug. 17 – Oct. 9	8.3C, 8.10C	8.3A, 8.3B, 8.8D, 8.10A, 8.10B, 8.10D
2	Developing Function Foundations	Oct. 19 – Nov. 20	8.3C, 8.4B, 8.4C, 8.5G, 8.5I, 8.10C	8.4A, 8.5A, 8.5B, 8.5E, 8.5F, 8.5H
3	Data Data Everywhere	Nov. 30 – Dec. 14	8.5D, 8.5I	8.5C, 8.11A, 8.11B
4	Modeling Linear Equations	Jan. 7 – Jan. 22	8.5I, 8.8C	8.5B, 8.8A, 8.8B, 8.9A
5	Applying Powers	Jan. 25 – April 2	8.2D, 8.7A, 8.7B, 8.7C, 8.12D	8.2A, 8.2B, 8.2C, 8.6A, 8.6C, 8.7D, 8.12A, 8.12C, 8.12G

Review	STAAR Review	April 3 – April 26	Differentiated	N/A
Step Up	Step Up to Algebra	May 3 – May 20	N/A	N/A

***Note:** Certain standards (8.11C, 8.12B, 8.12E, 8.12F) are identified as "Not Tested" on the state assessment but provide essential conceptual depth for high school readiness.*

Skills & Standards

- **Geometric Transformations:** Explain and apply the effects of translations, reflections, rotations, and dilations on a coordinate plane.
- **Proportionality & Functions:** Graph proportional relationships, identify functions, and model linear relationships using equations in $y=mx+b$ form.
- **Bivariate Data:** Construct scatterplots and use trend lines to make predictions based on sets of data.
- **Linear Equations:** Model and solve multi-step one-variable equations with variables on both sides.
- **Real Numbers:** Order sets of real numbers and approximate the value of irrational numbers.
- **Geometry Applications:** Apply the **Pythagorean Theorem** and solve complex problems involving the **volume and surface area** of 3D figures.
- **Financial Literacy:** Calculate simple and compound interest and evaluate the costs and benefits of various financial decisions.

Grading

Please refer to the **Forney ISD Grading Guidelines** for detailed information regarding assignment expectations, late work, and reassessment policies