CFISD MATH 381, Algebra I, Grade 8

Scope and Sequence (2025–2026)

Course Description

K-Level math students in Grade 8 study the remaining portion of the Texas Essential Knowledge and Skills required for Grade 8, not previously studied in K-level Math in Grade 7, as well as all of the Texas Essential Knowledge and Skills required for Algebra I. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology, specifically the graphing calculator, to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations.

Texas Essential Knowledge and Skills: CFISD 381, Algebra I, Grade 8, K-Level

First Semester (81 Days)

1st Grading Period

Unit	Start Date	End Date
Building Relationships	Aug. 13, 2025	Aug. 15, 2025
Linear Relationships	Aug. 18, 2025	Oct. 9, 2025

2nd Grading Period

Unit	Start Date	End Date
Linear Relationships	Oct. 15, 2025	Oct. 20, 2025
Systems of Equations	Oct. 21, 2025	Nov. 18, 2025
Exponential Functions and Equations	Nov. 19, 2025	Dec. 15, 2025
Semester Review and Exam	Dec. 16, 2025	Dec. 18, 2025

Last updated: May 15, 2025

Second Semester (92 Days)

3rd Grading Period

Unit	Start Date	End Date
Quadratic Functions	Jan. 6, 2026	Jan. 27, 2026
Polynomial Operations	Jan. 28, 2026	Feb. 25, 2026
Quadratic Equations	Feb. 26, 2026	Mar. 6, 2026

4th Grading Period

Unit	Start Date	End Date
Quadratic Equations	Mar. 16, 2026	Apr. 1, 2026
EOC STAAR Review	Apr. 2, 2026	Apr. 21, 2026
Sequences	Apr. 22, 2026	Apr. 30, 2026
Algebra Integration	May 1, 2026	May 22, 2026
Semester Review and Exam	May 26, 2026	May 28, 2026

Notes

**The length of each unit is a specific number of days, but it is understood that there is a range of +/- a day. The purpose of the flexibility is meant to allow teachers the opportunity to plan for the needs of their students and to accommodate re-teaching or review when necessary. If pre-assessment indicates student mastery could be obtained in a fewer number of days, the additional time could be used for extension or carried into the next unit.

Instructional Materials

Houghton Mifflin Harcourt Texas Algebra I

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Last updated: May 15, 2025