CFISD Algebraic Reasoning Scope and Sequence (2026–2027)

Course Description

In Algebraic Reasoning, students will build on the knowledge and skills for mathematics and, continue with the development of mathematical reasoning related to algebraic understandings and processes, and deepen a foundation for studies in subsequent mathematics courses. Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets. Students will use technology, specifically the graphing calculator, to collect and explore data.

Texas Essential Knowledge and Skills: Algebraic Reasoning

First Semester (80 Days)

1st Grading Period

Unit	Start Date	End Date
Algebraic Patterns	Aug. 12, 2026	Sep. 4, 2026
Functions and Inverses	Sep. 8, 2026	Oct. 8, 2026

2nd Grading Period

Unit	Start Date	End Date
Functions and Inverses	Oct. 19, 2026	Oct. 28, 2026
Function Operations	Oct. 29, 2026	Nov. 20, 2026
*Algebraic Methods	Nov. 30, 2026	Dec. 18, 2026

Last updated: May 18, 2026

Second Semester (93 Days)

3rd Grading Period

Unit	Start Date	End Date
Algebraic Methods	Jan. 5, 2027	Jan. 28, 2027
Matrices	Jan. 29, 2027	Feb. 22, 2027
Solutions of Equations	Feb. 23, 2027	Mar. 11, 2027

4th Grading Period

Unit	Start Date	End Date
Solutions of Equations	Mar. 22, 2027	Apr. 8, 2027
*Data Modeling	Apr. 9, 2027	May 27, 2027

Notes

* Includes time for Final Exams.

**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

Algebraic Reasoning Textbook (Cosenza and Associates)

District/Teacher Created Resources