

Independent Study in Mathematics - College Algebra

Scope and Sequence 2026-2027

Course Description:

In Independent Study in Mathematics – College Algebra, students will extend their mathematical understanding beyond the Algebra II level in a specific area or areas of mathematics. In College Algebra, students will study applications of Polynomial, rational, radical, absolute-value, piecewise Defined, Exponential and logarithmic functions, equations, inequalities, graphing skills and systems of equations using matrices.

Texas Essential Knowledge and Skills: Independent Study in Mathematics – College Algebra

Instructional Units	Days	
	Start Date	End Date
First Semester (80 days)		
1st Grading Period	08/12/2026	10/08/2026
Review of Basic Concepts and Polynomials	08/12/2026	09/09/2026
Rational and Radical Expressions	09/10/2026	10/05/2026
Linear Equations with Applications	10/06/2026	10/08/2026
*2nd Grading Period	10/19/2026	12/18/2026
Linear Equations with Applications	10/19/2026	10/26/2026
Quadratic Equations with Applications	10/27/2026	11/10/2026
*Other Equations and Inequalities with Applications	11/11/2026	12/18/2026
Second Semester (93 days)	Start Date	End Date
3rd Grading Period	01/05/2027	03/11/2027
General Function	01/05/2027	02/04/2027
Polynomial and Rational Functions	02/05/2027	03/09/2027
Exponential and Logarithmic Functions	03/10/2027	03/11/2027
*4th Grading Period	03/22/2027	05/27/2027
Exponential and Logarithmic Functions	03/22/2027	4/23/2027
*Systems and Matrices	04/27/2027	05/27/2027

* 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 Material(s):

Essentials of College Algebra, 13th edition

Pearson

04/17/2026