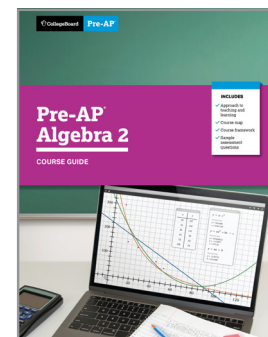




# Pre-AP Algebra 2 and Texas Essential Knowledge and Skills for Mathematics: Alignment Summary

Pre-AP courses focus deeply on a limited number of concepts and skills with the broadest relevance for high school coursework and college and career success. The course framework serves as the foundation of the course and defines these prioritized concepts and skills.

When teaching a Pre-AP course, teachers have purposeful time and space to bring their own voice and lessons into each unit to best meet the needs of their students and address the full range of state standards. This alignment summary demonstrates the deep connections between the Pre-AP Algebra 2 Course Framework and the Texas Essential Knowledge and Skills (TEKS) for Mathematics: Algebra II to support teachers and schools in their planning. Along with the corresponding standards crosswalk, teachers and schools can use this alignment summary when planning and preparing to implement Pre-AP Algebra 2.



## Alignment at a Glance: Very Strong

### TEKS for Mathematics:



- Attributes of Functions and Their Inverses
- Quadratic and Square Root Functions, Equations, and Inequalities
- Exponential and Logarithmic Functions and Equations
- Cubic, Cube Root, Absolute Value, and Rational Functions, Equations, and Inequalities
- Data

### Discipline Highlights

- ✓ Overall, the alignment between the Pre-AP Algebra 2 Course Framework and the TEKS for Mathematics: Algebra II is very strong.
- ✓ In all seven strands of the TEKS for Mathematics: Algebra II course, the majority of the standards are covered in full or in part by the Pre-AP Algebra 2 Course Framework.
- ✓ The deepest strand alignments are Attributes of Functions and Their Inverses, Exponential and Logarithmic Functions and Equations, and Data.
- ✓ The Pre-AP Algebra 2 Course Framework is fully aligned to TEKS A2.2.A-D and A2.8.A-C. The Pre-AP Algebra 2 lessons provide opportunities to identify attributes of functions and their inverses, as well as to analyze data, select models, write corresponding functions, and make predictions.



= **Very strong alignment**



= **Partial alignment**

Alignment between the Pre-AP Algebra 2 Course Framework and the TEKS for Mathematics: Algebra II is described as *very strong* or *partial*. A *very strong* alignment is one in which the majority of standards are fully addressed by the mapped Pre-AP Learning Objectives (LOs). A *partial* alignment is one in which the standards are partially addressed by the corresponding Pre-AP Learning Objectives. Partial alignment can occur when one framework includes greater specificity or extends beyond the scope of the other framework. Given the focused nature of the Pre-AP course framework, some partial alignments are to be expected.

# Alignment at a Glance: Partial

## TEKS for Mathematics:



- Number and Algebraic Methods
- Systems of Equations and Inequalities

## Discipline Highlights



While the overall alignment between the TEKS for Mathematics: Algebra II and the Pre-AP Algebra 2 Course Framework is very strong, there are a few areas of partial alignment due to the more granular nature of some of the TEKS for Mathematics: Algebra II.



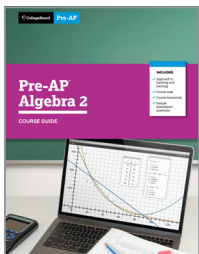
The Pre-AP Algebra 2 Course Framework has a more intentionally narrow focus on a prioritized set of concepts, so certain topics are considered outside the scope of the Pre-AP course. For example, systems of linear inequalities is a topic that is typically covered in detail in Algebra 1 courses, so it is not a focus topic for Pre-AP Algebra 2.



Although not fully addressed in Pre-AP Algebra 2, systems of linear and quadratic equations are covered in depth in Pre-AP Algebra 1 and systems of linear and nonlinear equations are covered in Pre-AP Geometry with Statistics.

## Summary

Beyond alignments to the course framework, it is also important for educators to turn to the Pre-AP Shared Principles and Pre-AP Mathematics Areas of Focus to understand the full picture of alignment between Pre-AP Algebra 2 and the TEKS for Mathematics: Algebra II. The shared principles and areas of focus represent the Pre-AP approach to teaching and learning, and these principles deeply address skill development and disciplinary practices that cannot be easily captured within a standards crosswalk. **In summary, there are ample opportunities for teachers to address the TEKS for Mathematics: Algebra II with confidence throughout this course.**



Learn more about Pre-AP Algebra 2 at [preap.org](https://preap.org)