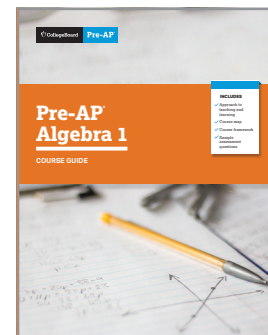# Pre-AP Algebra 1 and Arkansas Mathematics Standards: Alignment Summary

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 1 Course Framework and the Arkansas Mathematics Standards 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 1.

Alignment at a Glance: Very Strong

Arkansas Mathematics Standards:

- **Creating Equations**
- **Interpreting Functions**
- **Linear, Quadratic, and Exponential Models**
- **Reasoning with Equations and Inequalities**

Discipline Highlights

✓ Overall, the alignment between the Pre-AP Algebra 1 Course Framework and the Arkansas Mathematics Standards is very strong.

✓ Across all of the Arkansas Mathematics Standards, the majority of the standards are addressed in part or in full by the Pre-AP course framework.

✓ The Arkansas Mathematics Standards and the Pre-AP framework show the deepest alignment in the Interpreting Functions, Creating Equations, and Linear, Quadratic, and Exponential Models domains.

🔵 = **Very strong alignment**

🔵 = **Partial alignment**

Alignment between the Pre-AP Algebra 1 Course Framework and the Arkansas Mathematics Standards 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

Arkansas Mathematics Standards

- **Arithmetic with Polynomials and Rational Expressions**
- **Building Functions**
- **Interpreting Categorical and Quantitative Data**
- **Quantities**
- **Seeing Structure in Expressions**
- **The Real Number System**

Discipline Highlights

✓ While the overall alignment between the Arkansas Mathematics Standards and the Pre-AP Algebra 1 framework is very strong, there are a few areas of partial alignment due to the more granular nature of some of the Arkansas Mathematics Standards.
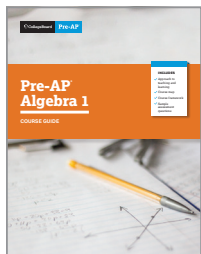
✓ The Pre-AP framework has a more intentionally narrow focus on a prioritized set of concepts, so certain topics are considered outside of the scope of the Pre-AP course. For example, many portions of HSAA.APR involve operations with monomials and polynomials. That topic is often addressed in pre-algebra courses. As a result, operations with monomials and polynomials are not a focus in Pre-AP Algebra 1.

✓ Though not a focus in Pre-AP Algebra 1, Interpreting Categorical and Quantitive Data is covered in depth 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 1 and the Arkansas Mathematics Standards. 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 Arkansas Mathematics Standards with confidence throughout this course.**

Learn more about Pre-AP Algebra 1 at preap.org

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