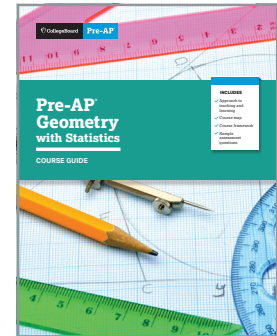# Pre-AP Geometry with Statistics and Arkansas Mathematics Standards: Geometry Content Standards: Alignment Summary

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 Geometry with Statistics Course Framework and the Arkansas Mathematics Standards: Geometry Content 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 Geometry with Statistics.

Alignment at a Glance: Very Strong

Geometry Content Standards:

- **Circles**

Discipline Highlights

✓ Overall, the alignment between the Pre-AP Geometry with Statistics Course Framework and the Geometry Content Standards is very strong.

✓ Across all six domains of the Geometry Content Standards, the majority of the standards are addressed in full or in part by the Pre-AP framework.

✓ The Geometry Content Standards and the Pre-AP framework share the deepest alignment within the Circles content domain.

= **Very strong alignment**

= **Partial alignment**

Alignment between the Pre-AP Geometry with Statistics Course Framework and the Geometry Content Standards is described as *very strong* or *partial*. A *very strong* alignment is one in which the majority of the 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

Geometry Content Standards:

- Congruence
- Properties with Equations
- Geometric Measurement and Dimension
- Modeling with Geometry
- Similarity, Right Triangles, and Trigonometry

Discipline Highlights

✓ While the overall alignment between the Geometry Content Standards and the Pre-AP Geometry with Statistics framework is very strong, there are a few areas of partial alignment due to the more granular nature of some of the Geometry Content Standards.

✓ The Geometry Content Standards include more specific statements than the Pre-AP learning objectives. For example, standard HSG.CO.C.9 lists a number of specific theorems related to lines and angles. Since not all of these theorems are included in the framework's learning objectives, the standard was listed as a partial match. However, the framework and model lessons provide opportunities to address these theorems throughout instruction.

✓ The Pre-AP framework has an intentionally narrow focus on a prioritized set of concepts, so certain topics are considered outside of the scope of the Pre-AP framework. For example, while the Pre-AP framework includes an introduction to right triangle trigonometry, it does not include all the trigonometric extensions, such as Law of Sines.

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 Geometry with Statistics and the Geometry Content 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 Geometry Content Standards with confidence throughout this course.**
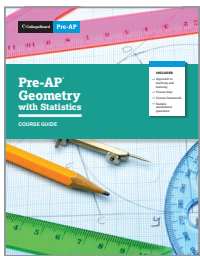
Learn more about Pre-AP Geometry with Statistics at preap.org

CollegeBoard