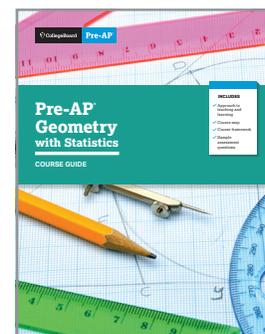




# Pre-AP Geometry with Statistics Course Framework and Ohio Learning Standards: Mathematics: Alignment Summary

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 Geometry with Statistics Course Framework and the Ohio Learning Standards: Mathematics 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

### Ohio Learning Standards: Mathematics



- Circles
- Congruence
- Interpreting Categorical and Quantitative Data

### Discipline Highlights

- ✓ Overall, the alignment between the Pre-AP Geometry with Statistics Course Framework and the Ohio Learning Standards: Mathematics is very strong.
- ✓ Across all nine domains of the Ohio Learning Standards: Mathematics, the majority of standards are addressed in full or in part by the Pre-AP framework.
- ✓ The alignment between the Pre-AP course framework and the Ohio Learning Standards: Mathematics is strongest in the Congruence and Interpreting Categorical and Quantitative Data content domains.
- ✓ The Pre-AP framework extends beyond Geometry and addresses several statistics and probability concepts also found in the Ohio Learning Standards: Mathematics.



= **Very strong alignment**



= **Partial alignment**

Alignment between the Pre-AP Geometry with Statistics Course Framework and the Ohio Learning Standards: Mathematics 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

## Ohio Learning Standards: Mathematics



- Conditional Probability and the Rules of Probability
- Expressing Geometric Properties with Equations
- Geometric Measurement and Dimension
- Making Inferences and Justifying Conclusions
- Modeling with Geometry
- Similarity, Right Triangles, and Trigonometry

## Discipline Highlights



While the overall alignment between the Ohio Learning Standards: Mathematics and the Pre-AP Geometry with Statistics Course Framework is very strong, there are a few areas of partial alignment due to the more granular nature of some of the Ohio Learning Standards: Mathematics.



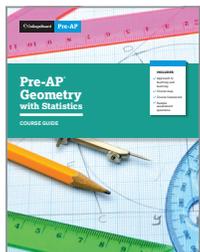
The Ohio Learning Standards: Mathematics include more specific statements than the Pre-AP learning objectives. For example, standard G.CO.9 lists a number of specific theorems. Since not all of these theorems are included in the framework's learning objectives, the standard was given a partial rating. However, there are 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 course. 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 Pre-AP 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 Ohio Learning Standards: Mathematics. 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 Ohio Learning Standards: Mathematics with confidence throughout this course.**



Learn more about Pre-AP Geometry with Statistics at [preap.org](https://preap.org)