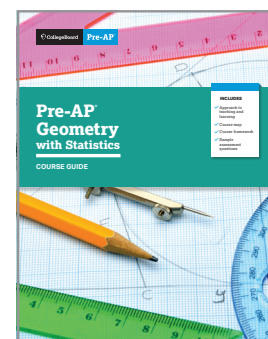




# Pre-AP Geometry with Statistics Course Framework and New York State Next Generation Mathematics Learning Standards: Geometry: Alignment Summary

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 New York State Next Generation Mathematics Learning Standards: Geometry 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

### New York Next Generation Mathematics: Geometry



- Circles
- Congruence
- Expressing Geometric Properties with Equations
- Geometric Measurement and Dimension
- Algebra 1 Unit 3

### Discipline Highlights



Overall, the alignment between the Pre-AP Geometry with Statistics Course Framework and the New York Next Generation Mathematics: Geometry is very strong.



Across all six domains of the New York Next Generation Mathematics: Geometry, the majority of the standards are covered in full or in part by the Pre-AP course framework.



The New York Next Generation Mathematics: Geometry and the Pre-AP course framework share the deepest alignment within the Circles, Expressing Geometric Properties with Equations, and Geometric Measurement and Dimension content domains.



= **Very strong alignment**



= **Partial alignment**

Alignment between the Pre-AP Geometry with Statistics Course Framework and the New York Next Generation Mathematics: Geometry 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

## New York Next Generation Mathematics: Geometry



- Modeling with Geometry
- Similarity, Right Triangles, and Trigonometry
- Algebra 2 Unit 4

## Discipline Highlights



While the overall alignment between the New York Next Generation Mathematics: Geometry and the Pre-AP Geometry with Statistics framework is very strong, there are a few areas of partial alignment due to differences in the level of specificity in certain areas.



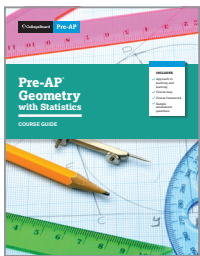
The New York Next Generation Mathematics: Geometry includes more specific statements than the Pre-AP learning objectives. For example, GEO-G.CO.8 addresses theorems for triangle congruence. While most of the theorems are covered, the learning objectives do not specifically address the Hypotenuse-Leg theorem. As a result, this standard was given a partial match. However, the framework and model lessons provide opportunities to fully address this standard in instruction.



The Pre-AP framework has a more intentionally narrow focus on prioritized concepts, so certain topics are considered outside the scope of the framework. For example, while the framework does include an introduction to right triangle trigonometry, it does not include all of 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 New York Next Generation Mathematics: Geometry. 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 New York Next Generation Mathematics: Geometry with confidence throughout this course.**



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