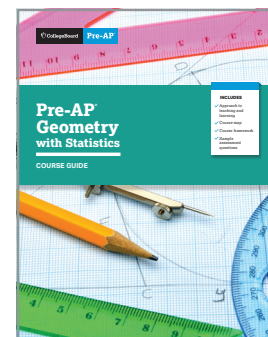# Pre-AP Geometry with Statistics and California Common Core State Standards Mathematics: Alignment Summary

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 California Common Core State 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

### CA CCSSM:

- **Circles**
- **Expressing Geometric Properties with Equations**
- **Algebra 1 Unit 3: Descriptive Statistics**

### Discipline Highlights

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

✓ Across all 10 domains of the CA CCSSM, the majority of standards are addressed in full or in part by the Pre-AP Geometry with Statistics Course Framework.

✓ The CA CCSSM and the Pre-AP framework share the strongest alignment within the Circles domain.

✓ The Pre-AP framework extends beyond geometry and covers statistics content found in the Algebra 1 course from the CA CCSSM.

= **Very strong alignment**

= **Partial alignment**

Alignment between the Pre-AP Geometry with Statistics Course Framework and the CA CCSSM is described as *very strong* or *partial*. A *very strong* alignment is one in which a strand is fully addressed by the mapped Pre-AP Learning Objectives (LOs). A *partial* alignment is one in which a strand is 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

## CA CCSSM:

- **Conditional Probability and the Rules of Probability**
- **Congruence**
- **Geometric Measurement and Dimension**
- **Modeling with Geometry**
- **Similarity, Right Triangles, and Trigonometry**
- **Using Probability to Make Decisions**
- **Algebra 2 Unit 4: Inferences and Conclusions from Data**

## Discipline Highlights

✓ While the overall alignment between the CA CCSSM 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.
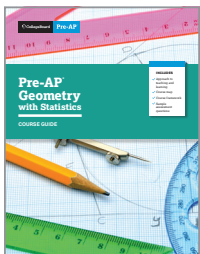
✓ The CA CCSSM includes more specific statements than the Pre-AP learning objectives. For example, standard G-CO.9 lists a number of specific theorems. Since these theorems are not explicitly listed in the framework's learning objectives, the standard was listed as a partial match. However, the framework and model lessons provide opportunities to address these theorems throughout instruction.

✓ Pre-AP 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, while the Pre-AP framework does include an introduction to right triangle trigonometry, it does not explicitly address some of the extensions of these trigonometric ideas that are included in the CA CCSSM.

## 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 CA CCSSM. 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 CA CCSSM with confidence throughout this course.**

**Learn more about Pre-AP Geometry with Statistics at preap.org**

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