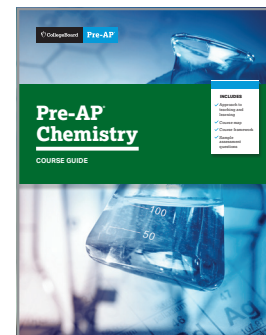




Pre-AP Chemistry and Georgia Standards of Excellence: Chemistry: Alignment Summary

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 Chemistry Course Framework and the Georgia Standards of Excellence: Chemistry 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 Chemistry.



Alignment at a Glance: Very Strong

GSE Chemistry:



- **SC2: Chemical and Physical Properties of Matter**
- **SC5: Chemical and Physical Processes**

Discipline Highlights

- ✓ Overall, the alignment between the Pre-AP Chemistry Course Framework and the GSE Chemistry is very strong.
- ✓ The majority of the standards in the GSE Chemistry are addressed in full or in part by the Pre-AP Chemistry Course Framework.
- ✓ The GSE Chemistry and the Pre-AP Chemistry Course Framework share the deepest alignment with standard SC5 and its related substandards.
- ✓ The Pre-AP Chemistry Course Framework covers topics beyond the requirements of the GSE Chemistry, including states of matter, measurement, mixtures, and isomers.



= **Very strong alignment**



= **Partial alignment**

Alignment between the Pre-AP Chemistry Course Framework and the GSE Chemistry 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

GSE Chemistry:



- SC1: Characteristics of Atoms and Elements
- SC3: Chemical Composition in Compounds and Chemical Reactions
- SC4: Chemical Reactions
- SC6: Solutions and the Nature of Acids and Bases

Discipline Highlights



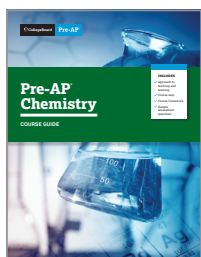
While the overall alignment between the GSE Chemistry and the Pre-AP Chemistry Course Framework is very strong, there are a few areas of partial alignment due to the more granular nature of some of the GSE Chemistry. For example, standard SC1.g states, "Develop and use models, including electron configuration of atoms and ions, to predict an element's chemical properties."



The Pre-AP Chemistry Course Framework has an intentionally narrow focus on a prioritized set of concepts, so certain topics are considered outside the scope of the course. For example, standard SC1.d covers isotopes in elements, which is beyond the stated purview of the Pre-AP framework and is not addressed by the learning objectives.

Summary

Beyond alignments to the course framework, it is also important for educators to turn to the Pre-AP Shared Principles and Pre-AP Science Areas of Focus to understand the full picture of alignment between Pre-AP Chemistry and the GSE Chemistry. 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 GSE Chemistry with confidence throughout this course.**



Learn more about Pre-AP Chemistry at preap.org