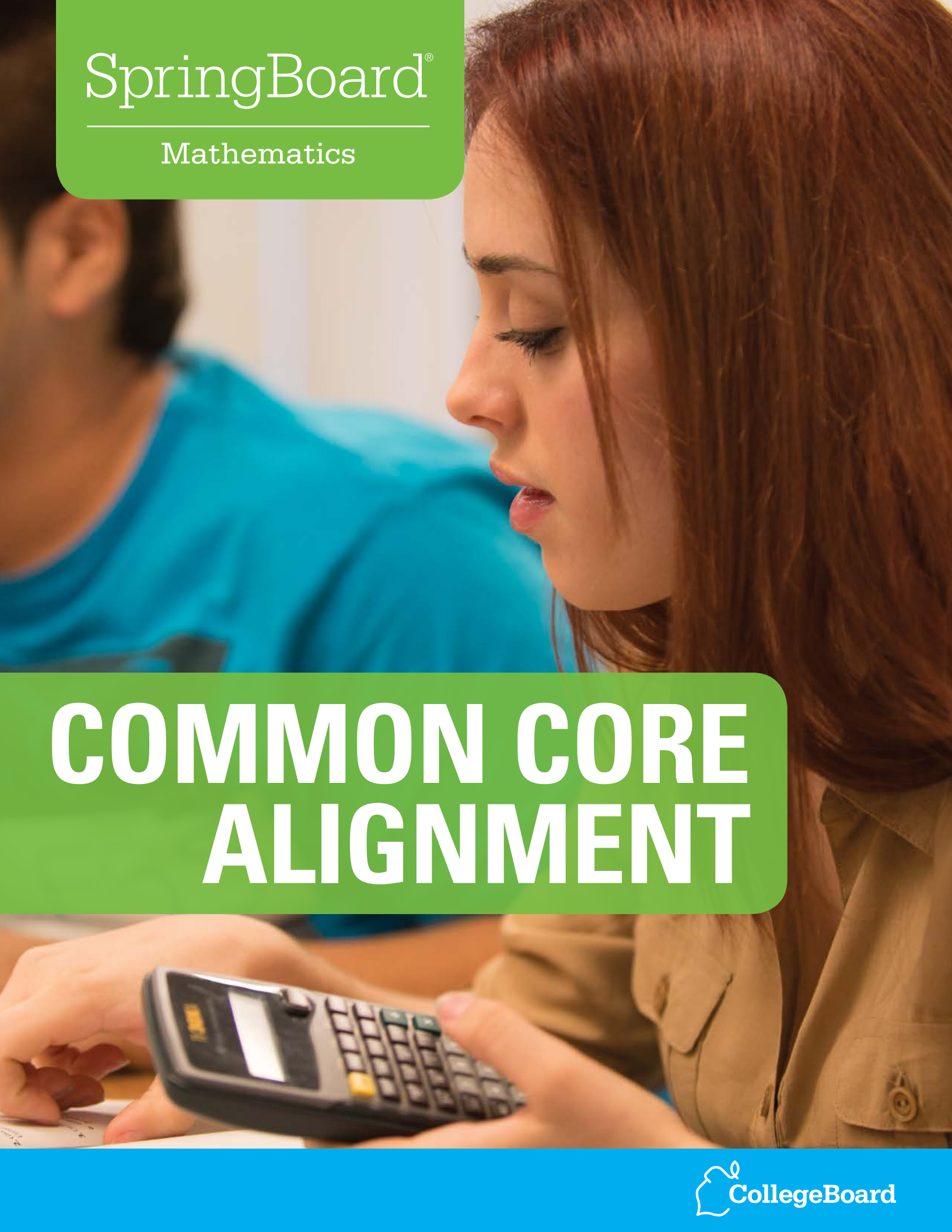


A close-up, profile view of a young woman with long brown hair, wearing a tan jacket, focused on using a black calculator. In the background, a male student in a blue shirt is partially visible, also working. The image is overlaid with green and blue text boxes.

SpringBoard[®]

Mathematics

COMMON CORE ALIGNMENT

The SpringBoard Difference:

Three foundational approaches set SpringBoard apart from other mathematics programs. First is the embedded expectation that students can do rigorous work with the **right preparation**. Second is that all SpringBoard mathematics activities, assessments and instructional supports reflect the **rigor** and the **expectations** about what students should know and be able to do. Third is the delivery of extensive teacher support through **professional development** and **coaching services**. SpringBoard infuses the Common Core's Standards for Mathematical Practice throughout all lessons and instructional activities and integrates teaching and learning strategies to help students use methodical approaches to learning new content.

SpringBoard Mathematics Alignment to the Common Core		The SpringBoard 2014 Common Core Edition
1. Focus on Major Work	In any single grade, students and teachers using the materials as designed spend the large majority of their time, approximately three-quarters (two-thirds for Grade 7), on the major work of each grade.	Revision of existing activities and creation of new activities to address CCSS and AP. <u>Grades 6-7</u> : Units 1-4 focus on Number & Operations, Expressions & Equations and Ratios & Proportions. <u>Grade 8</u> : Units 1-4 focus on Expressions & Equations, Functions and Geometry.
2. Focus in Early Grades	Materials do not assess any of the topics in Table 2 before the grade level indicated, or pattern problems in K-5 that do not support the focus on arithmetic, such as "find the next one" problems.	Grades 6-8 will each continue to have a probability/stats unit, but statistics will be introduced in Grade 6 followed by probability in Grade 7. Similarity, congruence and transformation are introduced in Grade 8.
3. Focus and Coherence through Supporting Work	Supporting content (where present) does not detract from focus, but rather enhances focus and coherence simultaneously by engaging students in the major work of the grade.	Supporting content enhances focus and coherence on major topics in each grade/course. <u>Grade 7</u> : Grace and Bernoulli explore multiple representations, supporting the critical area of working with expressions and linear equations. <u>Grade 8</u> : Reasoning with Patterns adds to the foundations for the critical area of formulating and reasoning about expressions and equations. <u>Algebra 1</u> : Properties by the Pound investigates properties of real numbers, building upon the notion of quantities and their relationships in functions.
4. Rigor and Balance Materials and tools reflect the balances in the Standards and help students meet the Standards' rigorous expectations, by (all of the following, in the case of comprehensive materials; at least one of the following for supplemental or targeted resources):	Developing students' <u>conceptual understanding</u> of key mathematical concepts, where called for in specific content standards or cluster headings.	Balanced instructional approach, with approximately 25% Directed, 45% Guided and 30% Investigative activities promotes deep conceptual understanding of key mathematical concepts. Examples and scaffolded questioning (CYUs and Mathematical Reflection items) lead to further conceptual understanding.

SpringBoard Mathematics Alignment to the Common Core		The SpringBoard 2014 Common Core Edition
4. Rigor and Balance (cont'd)	Giving attention throughout the year to individual standards that set an expectation of <u>fluency</u> .	<u>Grade 6</u>: Multi-digit division and multi-digit decimal operations integrated throughout activities. <u>Grade 7</u>: Several opportunities throughout all activities to practice operations with rational numbers and solving two-step equations. <u>Grade 8</u>: Emphasis on solving linear equations in one variable and solving systems of linear equations. Lesson Practice and Activity Practice problem sets provide additional opportunities for practice to develop fluency.
	Allowing teachers and students using the materials as designed to spend sufficient time working with engaging <u>applications</u> , without losing focus on the major work of each grade.	Activities begin with an updated, more relevant/engaging scenario. All activities contain at least one connection to a modern real-world context. Activity Practice sets include real-world applications of mathematical concepts.
5. Consistent Progressions Materials are consistent with the progressions in the Standards, by (all of the following):	Basing content progressions on the grade-by-grade progressions in the Standards.	Extensive revisions based on SpringBoard's backmapping from AP and CCSS.
	Giving all students extensive work with grade-level problems.	Multiple placements of Check Your Understanding questions throughout an activity. Lesson Practice and Activity Practice added.
	Relating grade level concepts explicitly to prior knowledge from earlier grades.	SB assumes some prior knowledge, and builds on that knowledge to investigate concepts further.
6. Coherent Connections Materials foster coherence through connections at a single grade, where appropriate and where required by the Standards, by (all of the following):	Including learning objectives that are visibly shaped by CCSSM cluster headings, with meaningful consequences for the associated problems and activities.	Each lesson in an activity lists at least two learning objectives based on the CCSS, with specific CCSS noted in the TE wrap.
	Including problems and activities that serve to connect two or more clusters in a domain, or two or more domains in a grade, in cases where these connections are natural and important.	Connections between multiple domains and multiple clusters are made in SpringBoard's Units and Activities. For example: <u>Grade 7</u>: Multiple representations connect 7.RP, 7.NS and 7.EE.

SpringBoard Mathematics Alignment to the Common Core		The SpringBoard 2014 Common Core Edition
7. Practice-Content Connections	Materials meaningfully connect content standards and practice standards.	Standards for Mathematical Practice continue to be integrated throughout the content of all lessons, activities and units. Specific items call out a practice standard and its connection to the mathematical concepts presented in an activity.
8. Focus and Coherence via Practice Standards	Materials promote focus and coherence by connecting practice standards with content that is emphasized in the Standards.	Items within each lesson and within each Lesson Practice highlight at least one of the eight Standards for Mathematical Practice and its connection to the lesson content.
9. Careful Attention to Each Practice Standard	Materials attend to the full meaning of each practice standard.	Professional Development emphasizes the integration of the CCSS practice standards and their connection to the content. Each activity ends with an item that focuses on one of the eight Standards for Mathematical Practice.
10. Emphasis on Mathematical Reasoning Materials support the Standards' emphasis on mathematical reasoning, by (all of the following):	Prompting students to construct viable arguments and critique the arguments of others concerning key grade-level mathematics that is detailed in the content standards (cf. MP.3).	Items within activities will not only require students to construct their own arguments and justification, but also ask students to critique the thought processes of their peers.
	Engaging students in problem solving as a form of argument.	As students engage in mathematical modeling and problem solving, they use their models and heuristics to justify their solutions, as can be seen in the Embedded Assessments.
	Explicitly attending to the specialized language of mathematics.	Enhanced signal boxes distinguish between Academic Vocabulary, Math Terms, Reading Math and Writing Math. Students are expected to "attend to precision" by using precise mathematical language in writing opportunities (in Check Your Understanding and Embedded Assessment questions).

Visit www.collegeboard.org/springboard for more information.