



TOM TORLAKSON
State Superintendent
of Public Instruction

Mathematics Framework and Acceleration to Higher Mathematics

The SBE Guidelines state: include a “discussion of options for middle school acceleration to support Algebra I or Integrated Mathematics I prior to ninth grade that are consistent with other Common Core states.”

Acceleration decision points at middle school—between sixth and seventh grade—and in high school, after grade eight

- Acceleration in middle school
- Doubling up, enhanced pathway, or summer bridge in high school



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Appendix A: Course Placement and Sequences for Higher Mathematics

The CA CCSSM represent a tight progression of skills and knowledge that is inherently rigorous and designed to provide a strong foundation for success in the new, more advanced, **Algebra I and Mathematics I** courses that will typically be taken by most students in the ninth grade.



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Appendix A: Course Placement and Sequences for Higher Mathematics

Students Who NOT May Be Ready for Acceleration

Misplacement is common, with negative **consequences** for students when they are unable to keep pace with the incremental difficulty of mathematics content; students' weaknesses in key foundational areas that support algebra-readiness frequently translate into **substantial difficulty reaching proficiency** in higher-level mathematics while **in high school** (Finkelstein, et al., 2012).



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Students Who May Be Ready for Acceleration

...there will still be some students who are able to move through the mathematics quickly. These students may choose to take an **accelerated or enhanced mathematics program beginning in eighth grade (or even earlier)** so they can take college-level mathematics in high school.

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Students who are capable of moving more quickly deserve thoughtful attention, both to ensure that they are **challenged** and that they are mastering the full range of mathematical content and skills—**without omitting critical concepts and topics.**

Appendix A: Course Placement and Sequences for Higher Mathematics



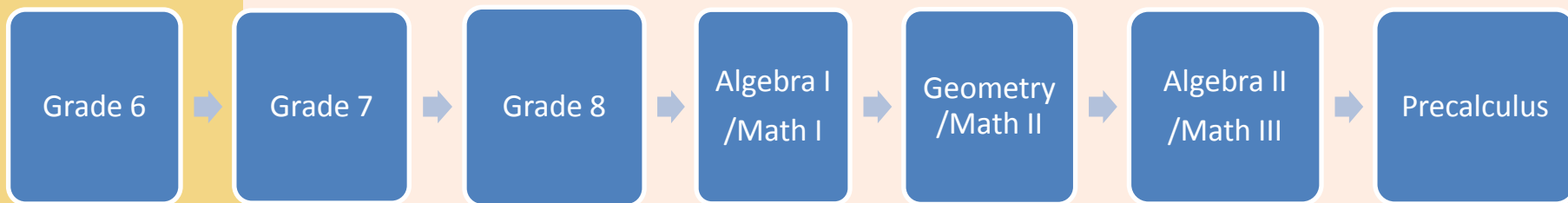
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...maintaining motivation and engagement in advanced mathematics is essential for some students who enjoy their work in mathematics and excel in mathematics, and in school, as a result. **Slowing down instruction or restricting access to accelerated sequences may discourage and disengage some students** from their progress in math, and potentially other courses as well.



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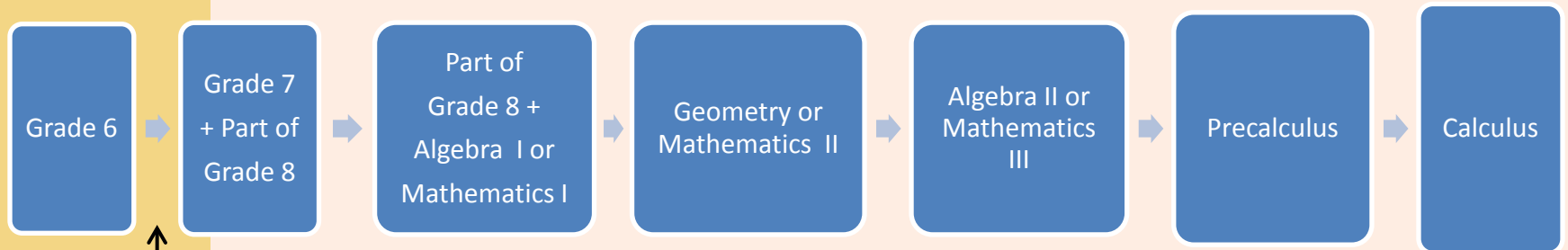
Course Sequences for Higher Mathematics: No Acceleration





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Course Sequences for Higher Mathematics: Middle School Acceleration



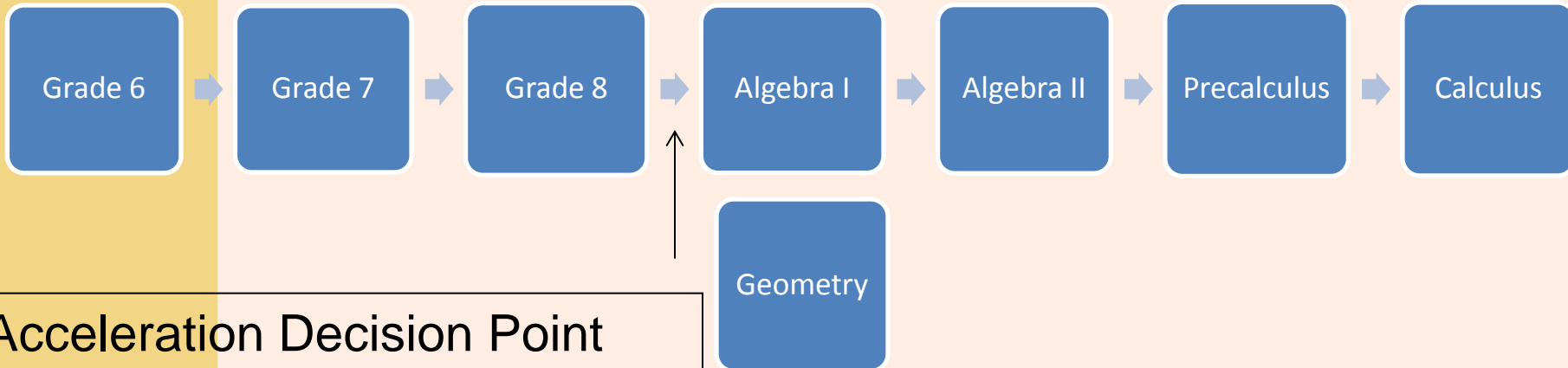
Acceleration Decision Point



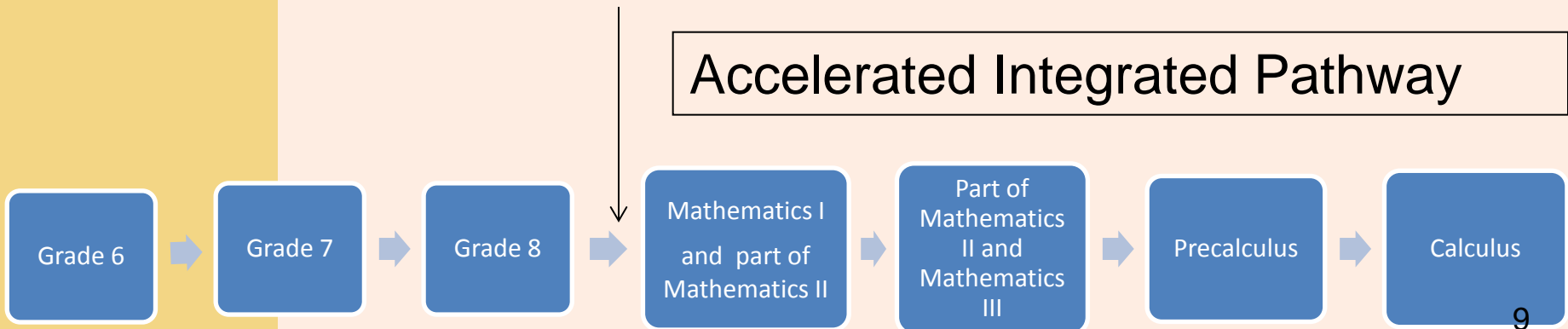
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Course Sequences for Higher Mathematics: Doubling Up

Doubling up in High School



Accelerated Integrated Pathway

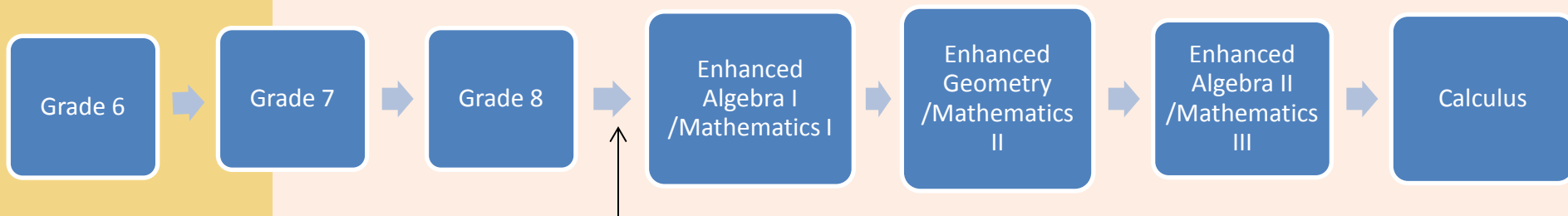


Course Sequences for Higher Mathematics: Enhanced & Summer Bridge



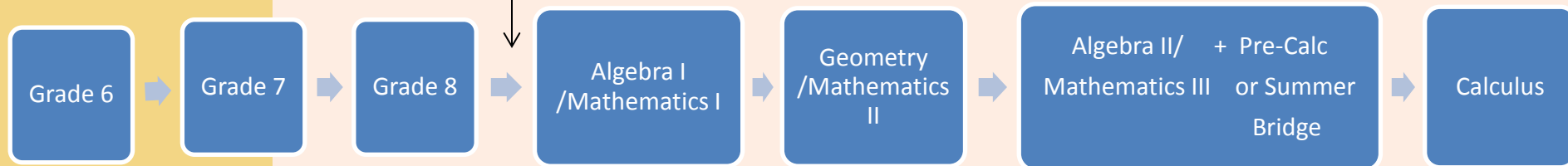
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Enhanced Pathway



Acceleration Decision Point

Summer Bridge Pathway





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View the new
Mathematics Framework
online at

<http://www.cde.ca.gov/ci/ma/cf/>