

Math Courses and Placement for Grades 6-8

2021-2022 School Year

California Mathematics Standards

- Math instruction for students in grades 6-8 is aligned to the California Common Cores Standards for Mathematics
- In addition to the mathematical content and skills, all students are expected to develop mathematical practices

Standard Math Courses for Grades 6-8

Course 1: Grade 6

- Decimal Operations
- Fraction Operations
- Expressions & One-Step Equations
- Ratios & Proportions (visual models)

Course 2: Grade 7

- Integer Operations
- Rational Number Operations
- Expressions & Two-Step Equations
- Proportional vs. Non-Proportional Relationships
- Rate of Change
- Percents

Course 3: Grade 8

- Solving Multi-Step Equations with Rational Coefficients
- Calculating and Interpreting Slope
- Writing Linear Equations from Graphs, Tables, and Real-World situations
- Graphing, Constructing and Interpreting Linear Functions

Common Math Progression Models

Model 1:

Full year courses with no acceleration until after Algebra I is completed in Grade 9

- San Francisco USD

Model 2:

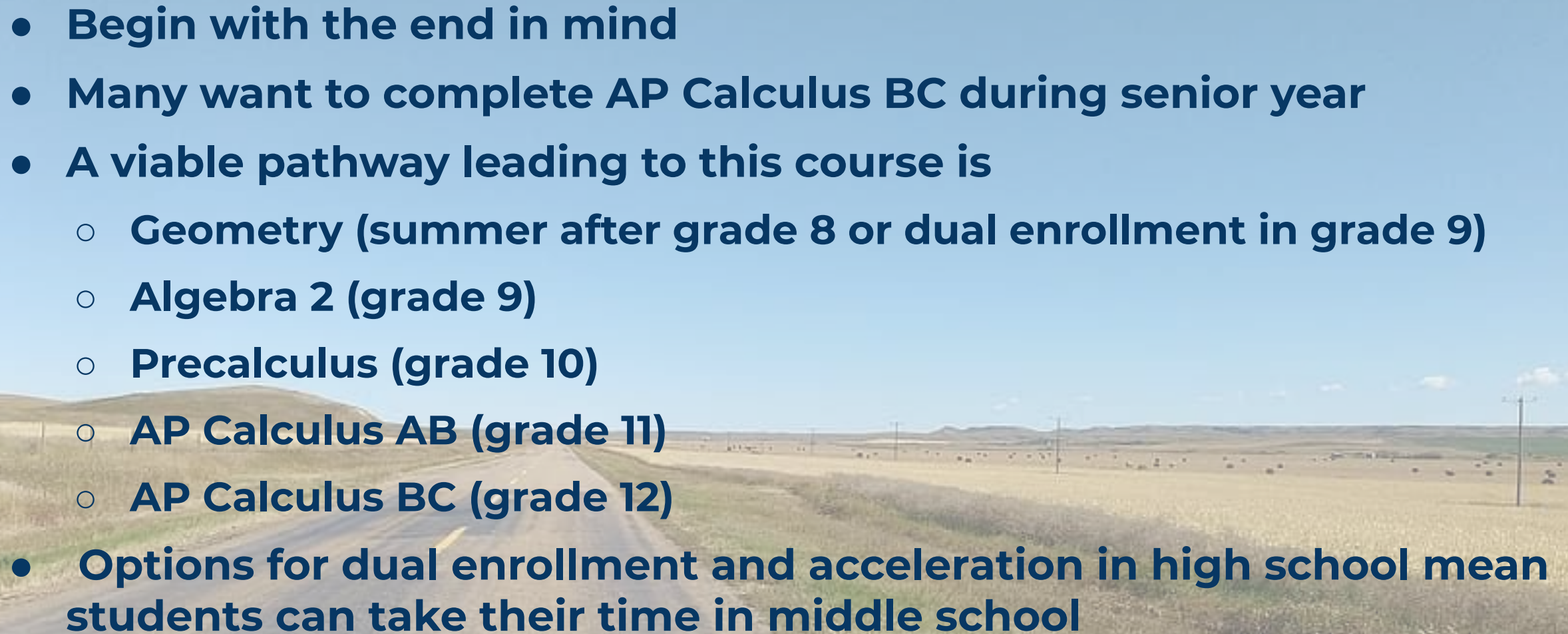
Compacted course options beginning in Grade 6 or 7

- Pleasanton USD
- Fremont USD
- Livermore Valley JUSD

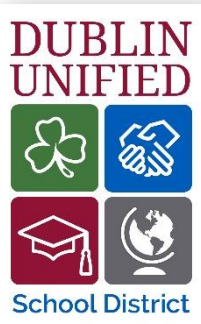
Model 3:

Full year courses with options for summer acceleration, dual enrollment, or bypass of some courses

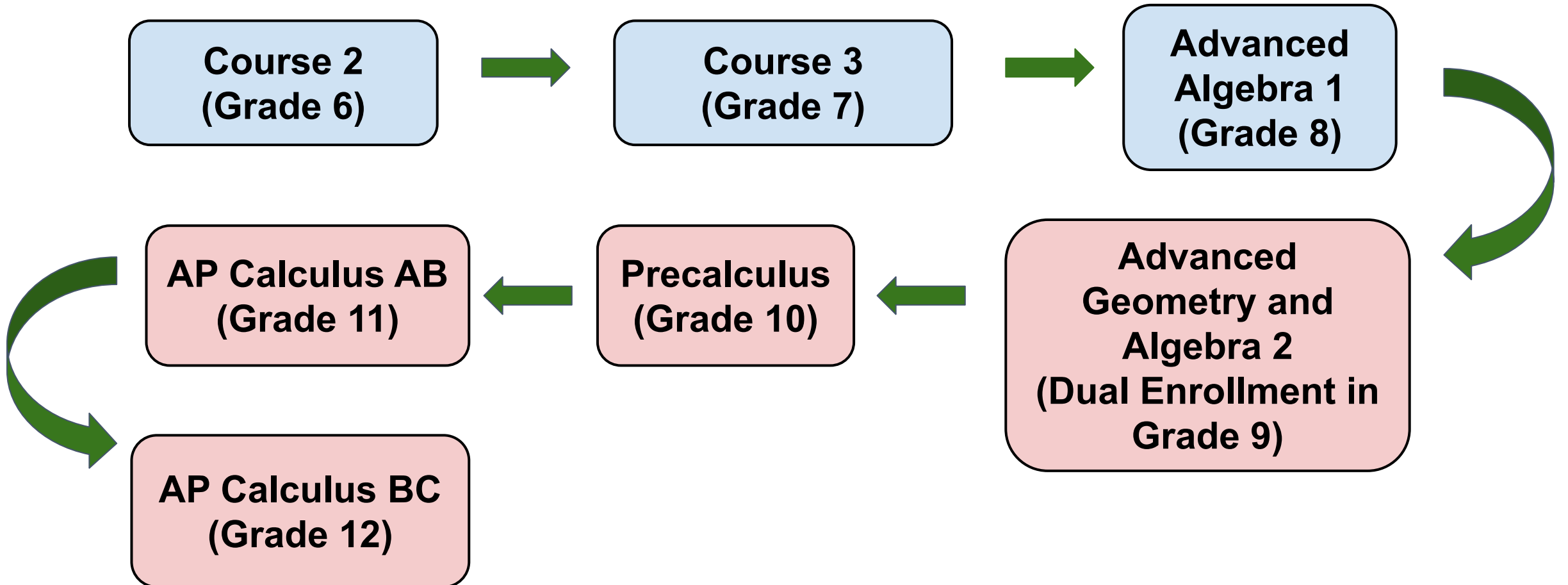
- **Dublin USD**
- San Ramon Valley USD

- 
- **Begin with the end in mind**
 - **Many want to complete AP Calculus BC during senior year**
 - **A viable pathway leading to this course is**
 - **Geometry (summer after grade 8 or dual enrollment in grade 9)**
 - **Algebra 2 (grade 9)**
 - **Precalculus (grade 10)**
 - **AP Calculus AB (grade 11)**
 - **AP Calculus BC (grade 12)**
 - **Options for dual enrollment and acceleration in high school mean students can take their time in middle school**




Planning Your Child's Math Pathway






Grades 6-12 Math Pathway without Summer Courses



Acceleration Options with a Course 1 Entry Point

Grade 6	Summer	Grade 7	Summer	Grade 8	Summer
 Course 1		Course 2	Course 3	Adv. Algebra 1	
 Course 1		Course 2	Course 3	Adv. Algebra 1	Adv. Geo
 Course 1		Course 3 (via placement)		Adv. Algebra 1	

Acceleration Options with a Course 2 Entry Point

Grade 6	Summer	Grade 7	Summer	Grade 8	Summer
 Course 2 (via placement)		Course 3		Adv. Algebra 1	Adv. Geo
Course 2 (via placement)	Course 3	Adv. Algebra 1		Adv. Geo	
 Course 2 (via placement)		Adv. Algebra 1 (via placement)	Adv. Geo	Adv. Algebra 2	
 Course 2 (via placement)	Course 3	Adv. Algebra 1	Adv. Geo	Adv. Algebra 2	

**Strong Math
Foundation**



**Ability to
Persevere**

**Self
Discipline**



Life Balance



Acceleration Considerations



Placement Matrix for Current 5th Graders

5th Grade Trimester 2 Math Grade
0 (Letter grade of B or below)
1 (Letter grade of A)

+

Timed Placement Test Raw Score <i>Readiness Assessment</i>
0 (0-31 points)
2 (32-35 points)
4 (36-40 points)

=

Total	Course Placement
0 - 2	Course 1
3 - 4	Course 2



Placement Matrix for Current Math Course 1 Students

Course 1 Test Average (Q1-Q3)
0 (0% - 84.49%)
1 (84.5% - 89.49%)
2 (89.5% - 100%)

+

Timed Placement Test Raw Score <i>Readiness Assessment</i>
0 (0-31 points)
1 (32-34 points)
2 (35-40 points)

=

Total	Course Placement
0 - 2	Course 2
3 - 4	Course 3



Placement Matrix for Current Math Course 2 Students

Course 1 Test Average (Q1-Q3)
0 (0% - 84.49%)
1 (84.5% - 89.49%)
2 (89.5% - 100%)

+

Timed Placement Test Raw Score <i>Readiness Assessment</i>
0 (0-39 points)
1 (40-42 points)
2 (43-45 points)

=

Total	Course Placement
0 - 2	Course 3
3 - 4	Advanced Algebra 1

TIMELINE



Dates	What's happening
March 15-18	Optional Algebra Readiness Test for Current Course 2 Students
March 29-31	Math Placement Letters Sent to Current Course 2 Students/Parents
March 31	Optional Placement Test for Current 5th-Grade Students
March 31	Optional Placement Test for Current Course 1 Students
April 12-16	Math Placement Letters Sent to Current 5th-Grade Families and Course 1 Families
May 15	Final Placement for Students Whose Parents Request Reconsideration

If you have additional questions, please submit them on this Google form:

<https://forms.gle/EKMserE8xLfLzE5VA>