

Common Core Math and AUHSD

Parent Information Meeting

March 17, 2015

Common Core and AUHSD

- Presentation Overview
 - Why Common Core
 - Common Core standards
 - Common Core Math
 - Common Core in the classroom
 - Question

Common Core

....The Big Picture

- The Big Picture:
 - Trends in College Demands
 - Trends in Workplace Demands
 - Trends in International Benchmarking

Common Core

.... The Big Picture

Common Core Standards are:

1. Research and evidence based
2. Clear, understandable, and consistent
3. Aligned with college and career expectations
4. Based on rigorous content and the application of knowledge through higher-order thinking
5. Built upon the strengths and lessons of current state standards
6. Informed by other top-performing countries to prepare all students for success in our global economy and society

Common Core

.... The Big Picture

Common Core Subject Areas

- Mathematics
 - **Traditional** vs. Integrated math pathways
- English Language Arts and Literacy in History/Social Studies, Science and Technical Subjects
 - 9th /10th and 11th/12th grade Literacy Standards

Common Core - Math

High School Pathway Options – Higher Mathematics

- Standards to be covered by the end of 11th grade

The Traditional Pathway (AUHSD)

- Algebra 1
- Geometry
- Algebra 2

The Integrated Pathway

- Mathematics I
- Mathematics II
- Mathematics III

Common Core Math

- Common Core Pathways
 - “The Floor” – Completing the standards by end of 11th grade

Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
Math 6	Math 7	Math 8	Algebra 1	Geometry	Algebra 2	Pre Calculus

** Sequence “at grade level”*

Common Core Math

The Calculus challenge....

AUHSD Calculus Enrollment

- Class of 2015 – 27% enrolled in Calculus (AB or BC)
- Class of 2015 – 56% enrolled in AP Calculus or AP Stats
 - *76% of AUHSD Students enter 4-year college past graduation*

AUHSD Calculus Achievement – 2014 test administration

- Calculus AB
 - Students scoring 3 and above: 94%
 - Students scoring 4 and above: 82%
- Calculus BC
 - Students scoring 3 and above: 99%
 - Students scoring 4 and above: 95%

Common Core Math

- Primary Acceleration Pathways
 - After 5th grade
 - After 6th grade

Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
Math 6	Math 7	Math 8	Algebra 1	Geometry	Algebra 2	Pre Calculus

- ★ • *Possible Acceleration*

AUHSD considered Primary Acceleration Pathway as the preferred acceleration pathways.

Common Core Math

- Secondary Acceleration Pathways
 - After Algebra 1 or Geometry

Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
Math 6	Math 7	Math 8	Algebra 1	Geometry	Algebra 2	Pre Calculus

★* *Secondary Acceleration – Compaction*

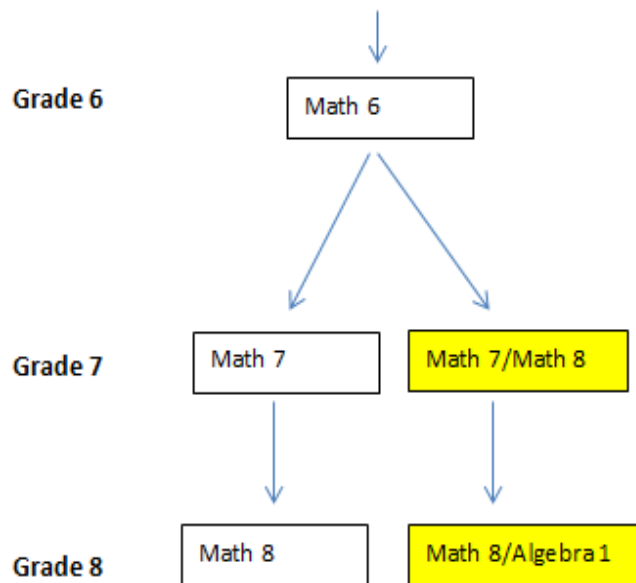
★* *Post Algebra 1 – Honors or Regular pathway*

Acceleration options:

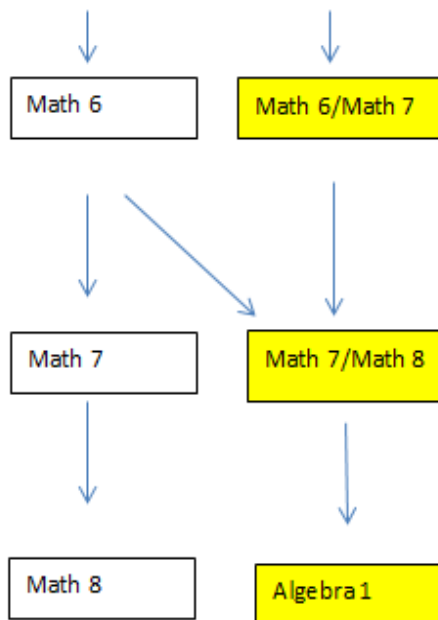
1. *Compaction – AUHSD Preferred Secondary Accel Pathway*
2. *Summer school – AUHSD does not recommend*
3. *“Doubling up” – AUHSD does not recommend*

Math – Middle School

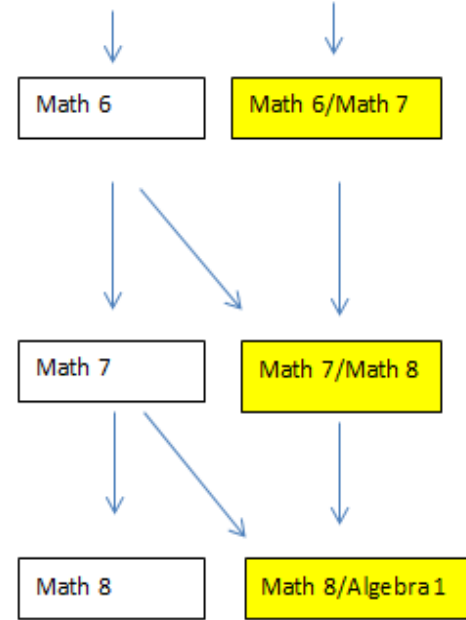
Lafayette and Walnut Creek School Districts



Moraga School Districts



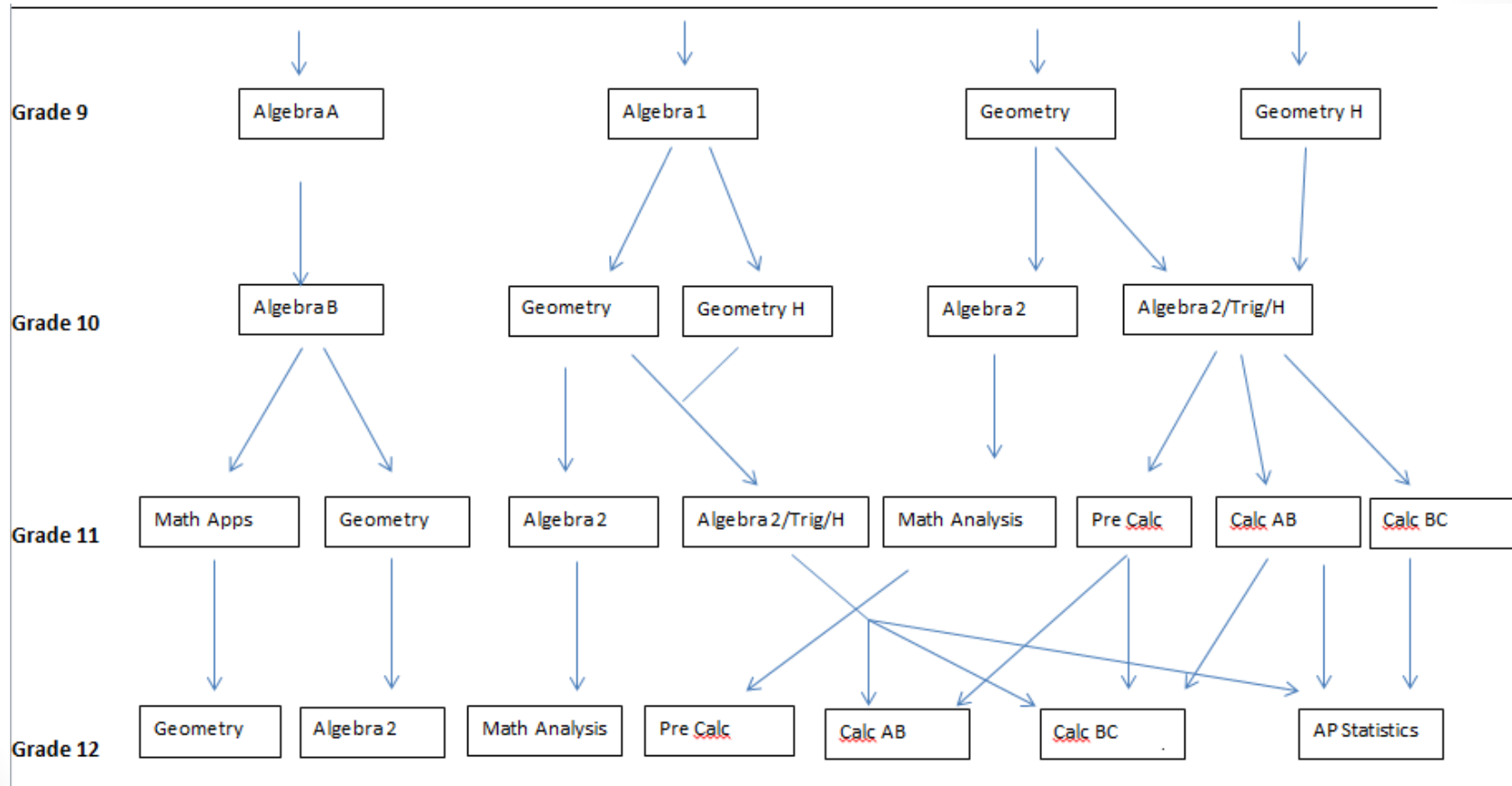
Orinda School District



Accelerated Pathway

Please see AUHSD website for a more detailed diagram of math pathways

High School - Pathways



Common Core Math

.... In the classroom

- **8 Mathematical Practices**
 - Make sense of problems and persevere in solving them
 - Reason abstractly and quantitatively
 - Construct viable arguments and critique the reasoning of others
 - Model with mathematics
 - Use appropriate tools strategically
 - Attend to precision
 - Look for and make use of structure
 - Look for and express regularity in repeated reasoning

Common Core

.... What it looks like in the classroom

- Changes in the delivery methods
- Classwork and Homework changes
- Collaborative learning
- Technology Integration
- Assessment changes

Common Core ... and AUHSD

- **Questions?**

