

Annual Mathematics Placement Update for 9th Grade and Vision for Math Learning K-12

October 9, 2018

Pleasanton Unified School District
Board of Education Meeting

Background: 9th Grade Math Placement

Senate Bill 359, Mitchell

California Mathematics Placement Act of 2015

- Calls to “develop and adopt... a fair, objective, and transparent mathematics placement policy for pupils entering grade 9 with specified elements...”



Math Diagnostic Assessment Summary

9th Grade

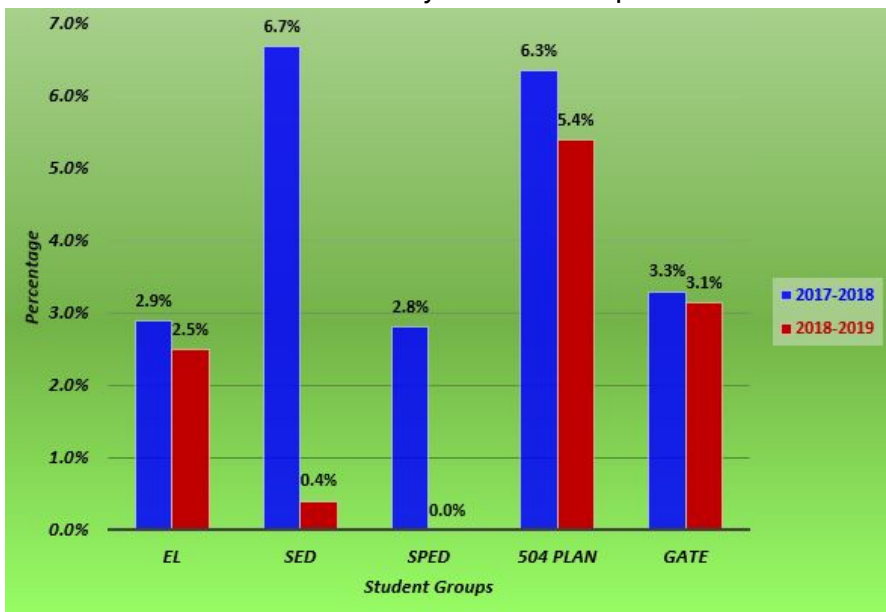
Assessment Details:

- First 20 school days
- Algebra and/or geometry skills
- Teachers talk with students about potential schedule changes based on mastery of skills
- Students will either take the beginning-of-the-year diagnostic assessment or NWEA/MAP (Northwest Evaluation Association/Measures of Academic Progress)

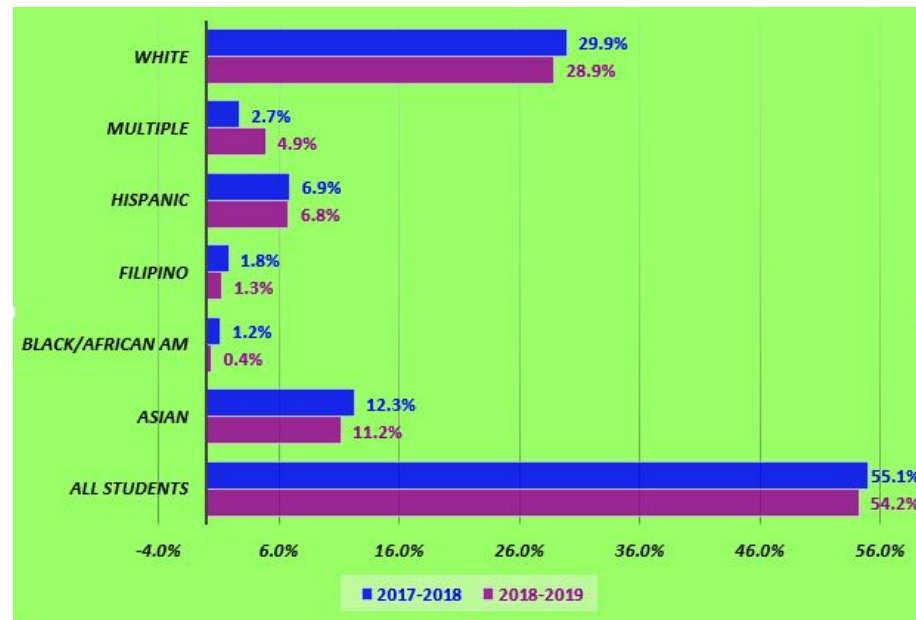
Average Percent 9th Grade Students Enrolled		
	2017-18	2018-19
Algebra I	55.1% (668)	54.2% (675)
Geometry	15.0% (182)	14.5% (181)
Honors Geometry	6.6% (80)	9.5% (118)
Other math courses <small>(Algebra II, Hon Algebra II, Hon Pre-Calculus, Pre-Calculus, and AP Calculus BC)</small>	23.3% (283) 697250	21.8% (271)

Math Diagnostic Assessment Summary (continued)

Algebra I Course Enrollment
Breakdown by Student Groups

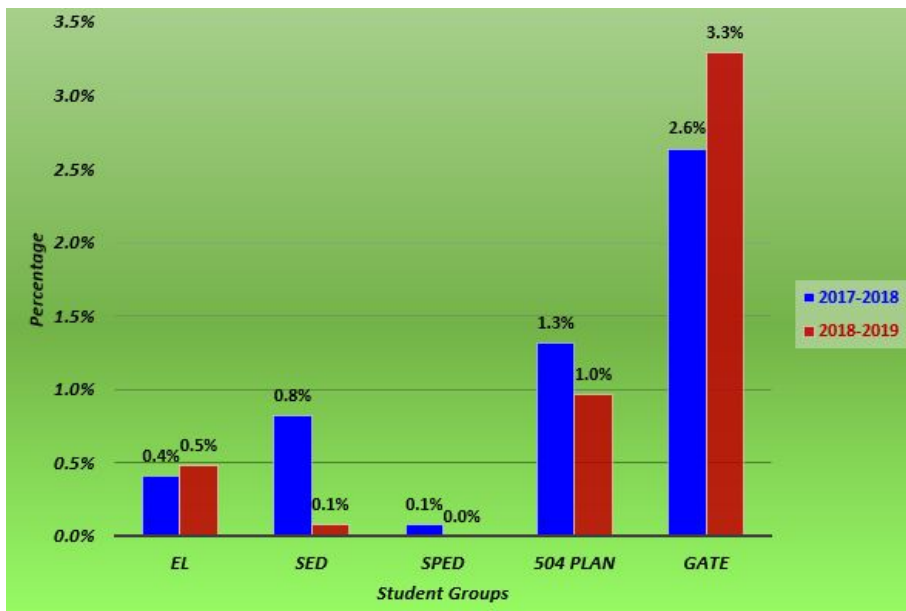


Algebra I Course Enrollment
Breakdown by Student Groups

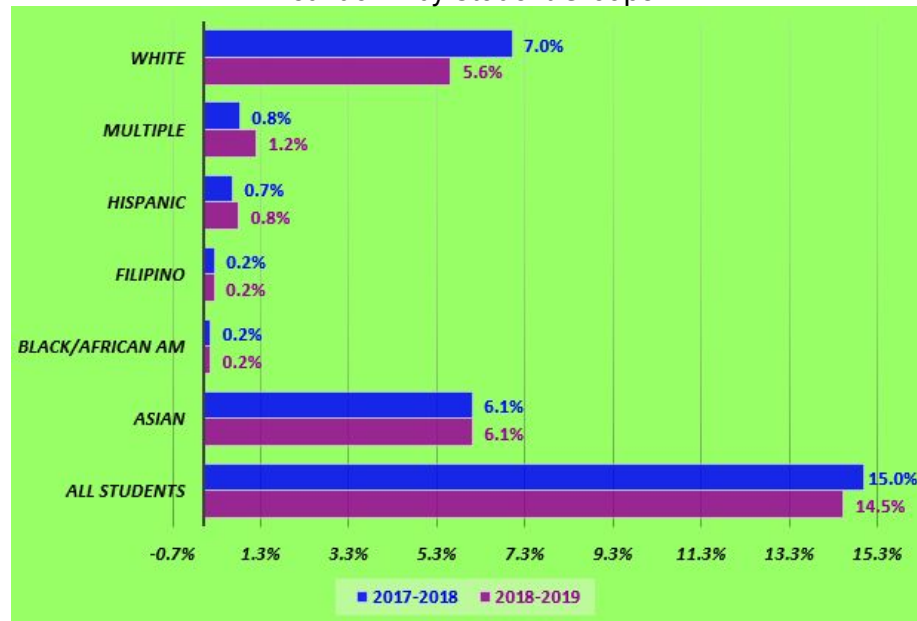


Math Diagnostic Assessment Summary (continued)

Geometry Course Enrollment
Breakdown by Student Groups

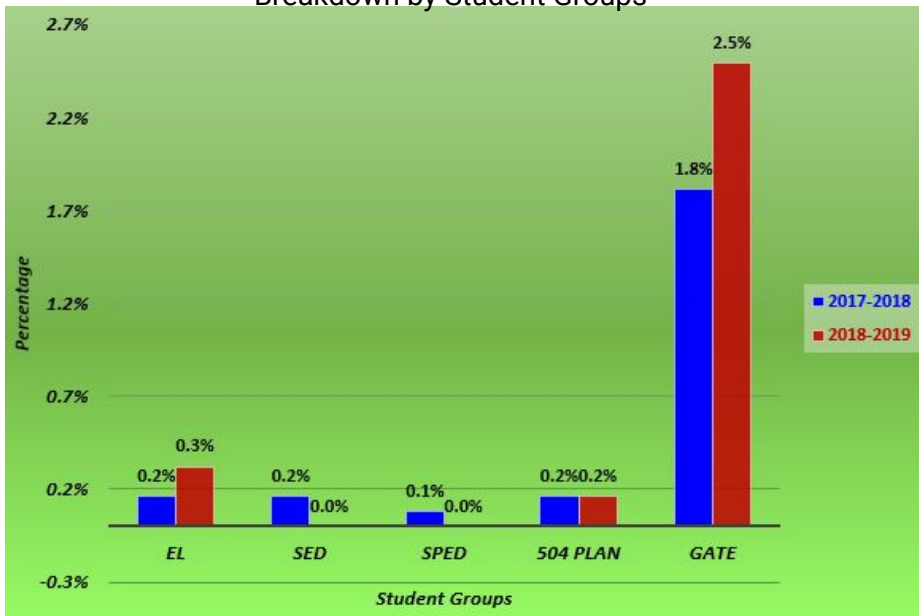


Geometry Course Enrollment
Breakdown by Student Groups

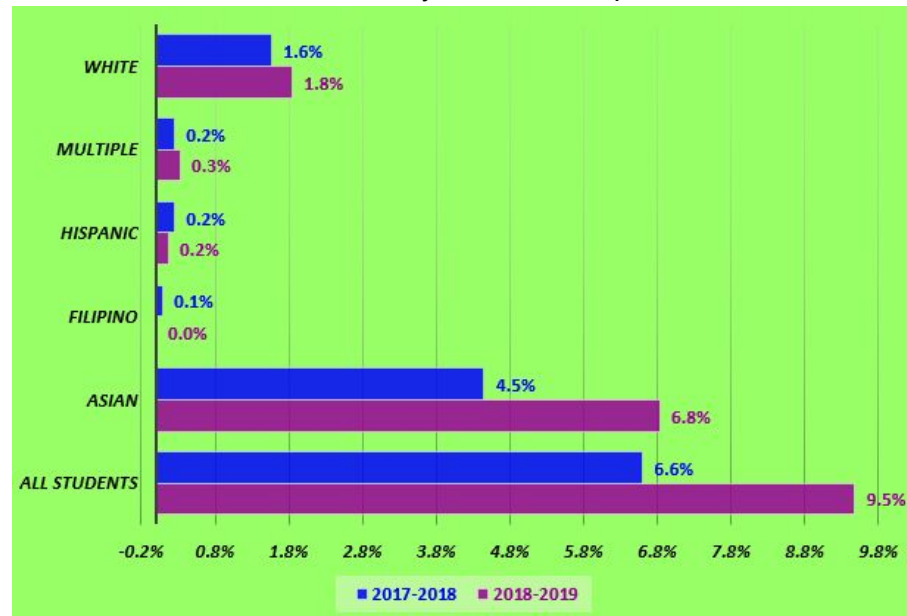


Math Diagnostic Assessment Summary (continued)

Honors Geometry Course Enrollment
Breakdown by Student Groups

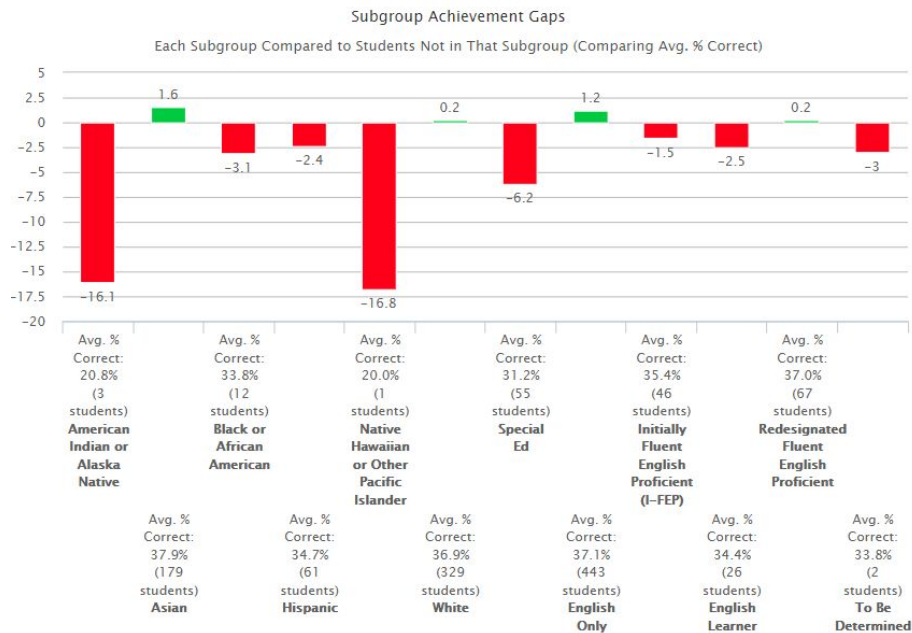


Honors Geometry Course Enrollment
Breakdown by Student Groups

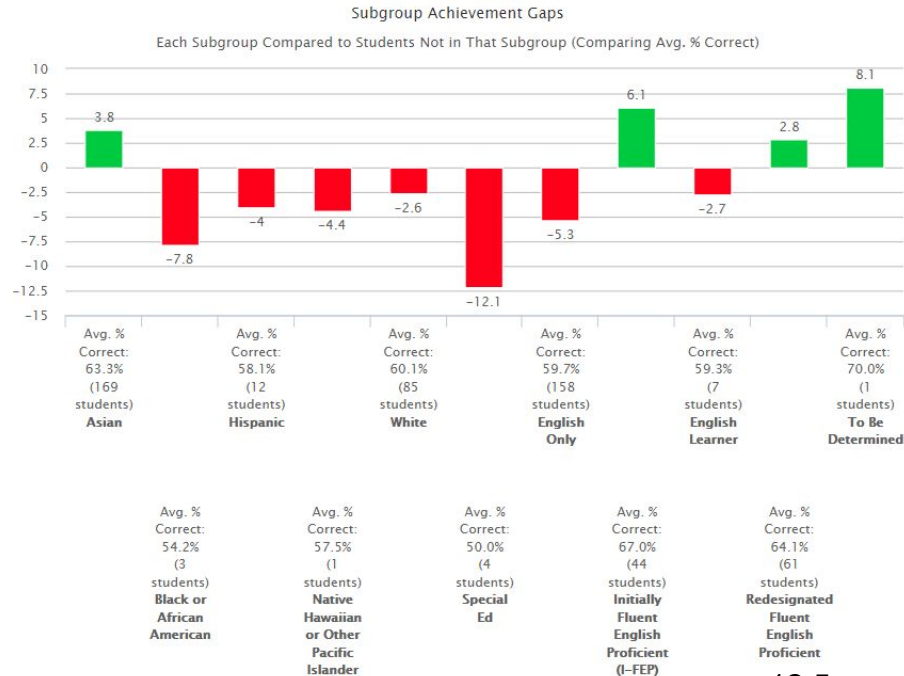


Math Diagnostic Assessment Summary (continued)

2018-19 9th Grade PUSD BoY Fall Algebra Test Breakdown by Student Groups



2018-19 9th Grade PUSD BoY Fall Geometry Test Breakdown by Student Groups



12.5

Note: The assessment is an end of year course diagnostic given at the beginning of the year.

The background of the slide is white and decorated with various light gray mathematical symbols scattered across it. These symbols include plus signs (+), minus signs (-), multiplication signs (x), and squares (□). Some of the symbols are solid, while others are hollow or have a different orientation, creating a subtle pattern.

Vision for Math Learning K-12



VISION *for* MATH LEARNING

EVERY student is "enthused about mathematics, sees the value and beauty of mathematics, and is empowered by the opportunities mathematics affords."

(National Council of Teachers of Mathematics, 2016)

Students will...



Construct and critique
mathematical reasoning



Persevere and develop a
growth mindset with respect
to mathematics



Solve **engaging
mathematics tasks**:
◦ Multiple access points
◦ Multiple solution methods

Teachers will...



Grow as **mathematicians**



Utilize **Universal Design for
Learning (UDL)** and
Differentiated Instruction (DI) to
meet the needs of all students



Use the **workshop model** to
increase student engagement

Our vision for math learning was developed by our mathematical experts, which is grounded in research-based practices along with the belief that we will maximize our student achievement by focusing on a few key areas.

GOAL

Provide systemic, high quality support for students and staff.

This multi-faceted approach focuses on encouraging communication between district, school sites, and community.

-- PUSD Vision for Math Learning

PUSD 6-12 Math Integration Specialist

Best Instructional Practices/Strategies for Tier I, II and III RTI Math Supports.

Stakeholder Task Force

A team of PUSD stakeholders will review mathe placement policy (BP/AR 6152.1)

Staff and Community Professional Development:

Strengthen Tier I instruction for all students

- **Silicon Valley Math Initiative (SVMI) Partnership**
 - Middle & High Math Teacher Cohorts
 - 2018-19 Focus on Math 6 & Algebra
- **Public Education & Business Coalition (PEBC) Partnership**
 - All K-5 Teachers Math Workshops
 - K-5 Math Cohort
- **Math Family Nights (K-12)**

Thank You For This Opportunity!



For Reference

Pleasanton Unified School District's:

- [Board Policy 6152.1](#)
- [Administrative Regulations 6152.1](#)
- [Equity and Diversity Resolution \(2015.16.23\)](#)
- [PUSD Mathematics Pathways for Grades 5-12](#)

