

College Preparatory Mathematics (CPM) – Integrated Math Program

Student Performance Data



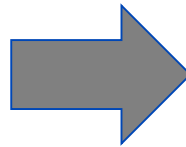


Program Change

Traditional Sequence to Integrated Sequence

Former Program

- Algebra 1
- Grade 8 Adv. Algebra 1
- Geometry
- Honors Geometry
- Algebra 2
- Honors Algebra 2
- Pre-Calculus
- AP Calculus



Current Program

- Integrated Math 1
- Grade 8 Adv. Integrated Math 1
- Integrated Math 2
- Honors Integrated Math 2
- Integrated Math 3
- Honors Integrated Math 3
- Pre-Calculus
- AP Calculus



Achievement Data - Non BPS Students

Positive Correlations from Scientific, Research-based Studies

Study	Year	Students	Achievement Trend
McCaffrey et al.	2001	5,500	Positive Compared to Traditional
Schoen & Hirsh	2003	1,050	Significantly Higher
Chavez et al.	2015	2,200	Significantly Higher
Tarr et al.	2013	3,258	Significantly Higher
Grouws et al.	2013	2,161	Significantly Higher

Positive Correlations from California's High Schools



For students (n=282,130) who used CPM for 3 years (2015 to 2017), the average increase in scaled score growth was 8.2 points compared 4.7 for all CA students.



Students at Coronado High School (A+ District, 5% FRL) increased proficiency (standards met and exceeded) from 50% to 60% over three years.



CPM Program Data Analysis

Student Achievement Data

- Current Student Grades
- Spring 2018 PSAT 8/9 Math Scores
- End of Year NWEA Math Scores

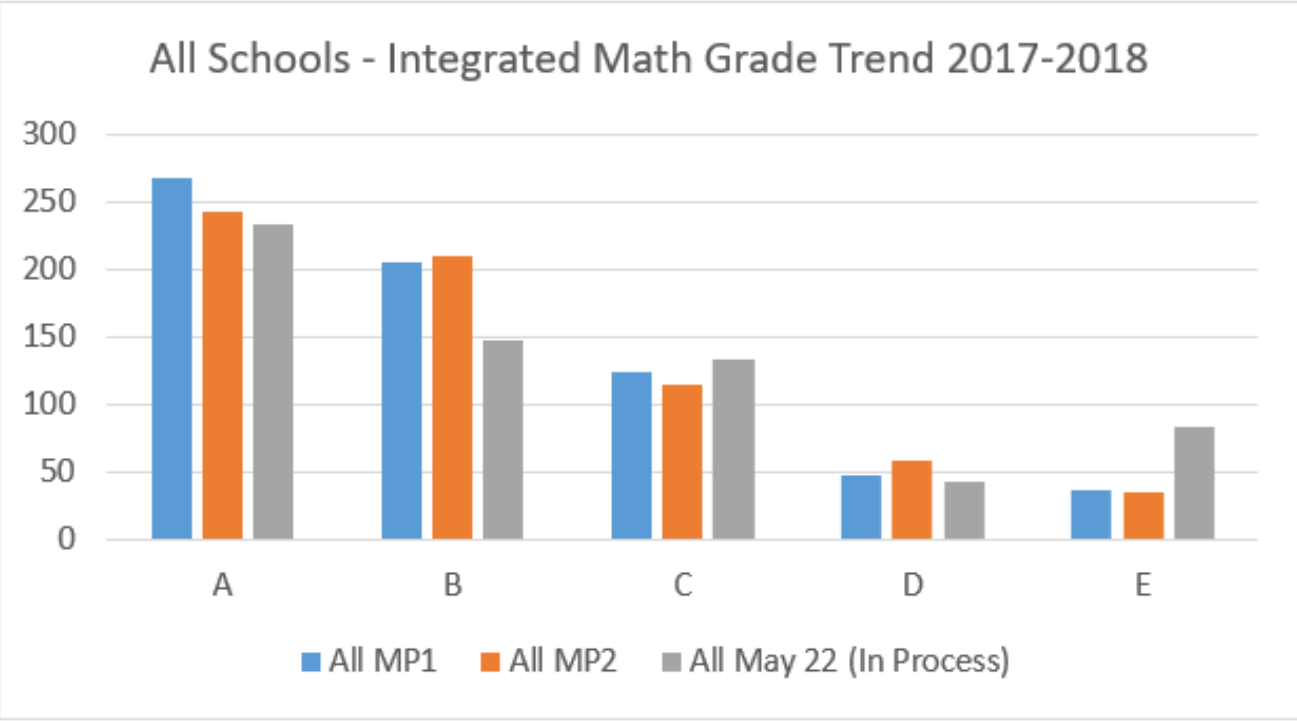




Data Analysis - Student Grades

60% of students enrolled in College Preparatory Math (n=641) are currently earning an A or B.

Note: These in-process grades for Marking Period 4 (MS) and Trimester 3 (HS) contain 467 missing, 139 late, and 73 incomplete assignments. Final grades are expected to be much higher.



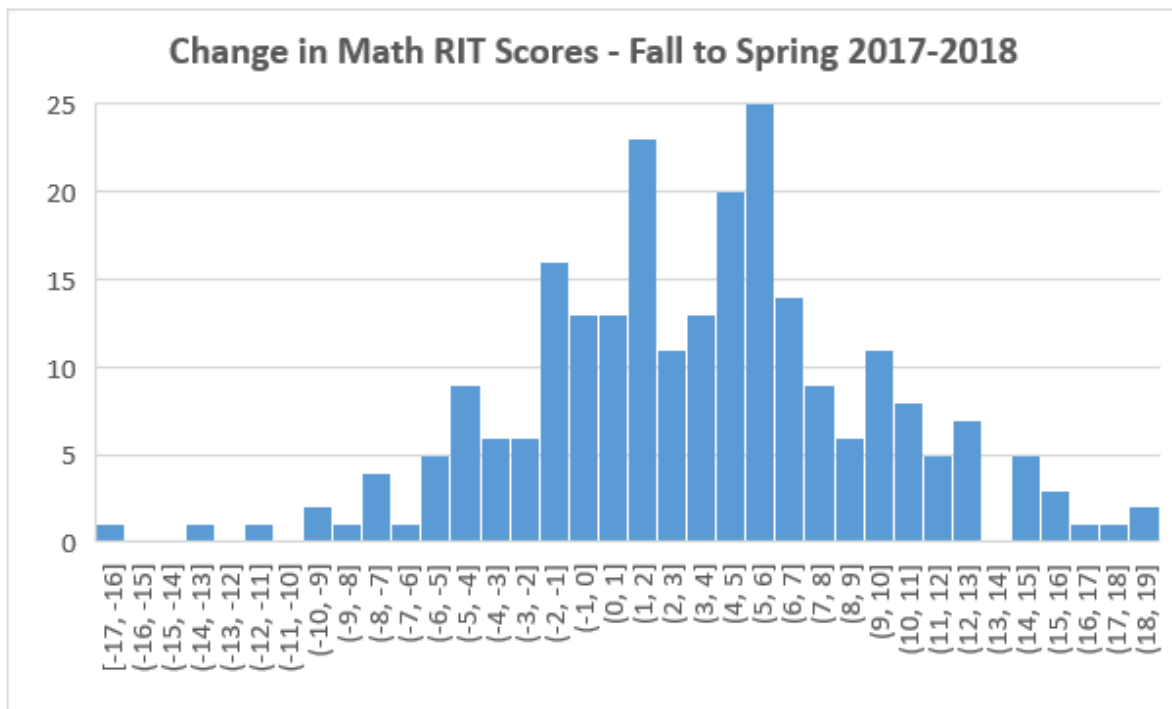
Based on our student survey, 76% of students self report they are currently earning and A or B.

Based on a review of high school grades from last year (Algebra 1) and this year (CPM 1), there was no statistically significant difference in grades for Trimester 1.



Data Analysis - NWEA

Middle school Advanced Math CPM students (n=243) showed an average increase in RIT score (Fall 2017 to Spring 2018) of 3.93, compared to their previous growth (Fall 2016 to Spring 2017) of 2.95.



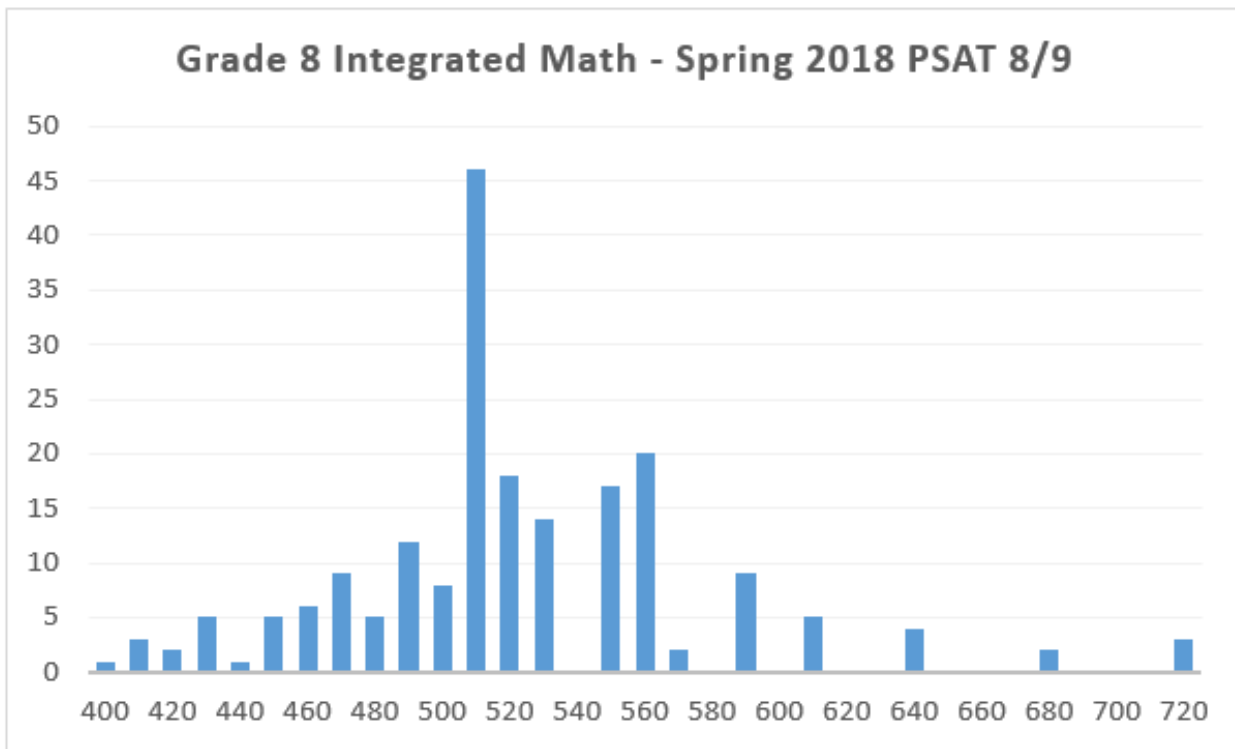
Typical growth for one school year, at those RIT levels, would be 1.5 to 2.0 points.

NWEA data was not available for Grade 9 CPM students - NWEA is not currently part of the high school assessment plan



Data Analysis - PSAT 8/9

Grade 8 Advanced Math CPM students (n=207) averaged 525 on the Spring 2018 PSAT 8/9, compared to 473 for all 8th Grade students (n=643).



All but 6 of our Advanced Math students attained the College and Career Readiness Cut Score of 430.

Spring 2017 PSAT 8/9 scores were not available for comparison as students took the assessment in the Fall of 2016.



Data Analysis - PSAT 8/9

CPM Grade 9 students took the PSAT 8/9 as part of the State of Michigan's M-STEP assessment in April 2018. Results are expected to be released to districts at the end of June/early July.



The PSAT 8/9
College and
Career Readiness
Cut Score for
Grade 9 is 450.

