

The effectiveness of Santa Barbara secondary students mathematics performance using the CPM Program as compared to students in similar schools.

Results of an exemplary implementation of CPM.

This summary is from a report prepared by Dr. G. Thomas Sallee, University of California, Davis, for the Santa Barbara School District in 2001. Santa Barbara is an exemplary implementer of the CPM courses for a number of reasons: first, the schools have had long-term administrative support for the program; second, most teachers have had at least two years of CPM teacher workshops; and third, the district has a stable teaching force, so the average teacher has at least four years of experience teaching CPM.

For this study, each of the three Santa Barbara high schools was compared to the ten schools that are most like it according to the School Characteristics Index (SCI) generated by the California State Department of Education. Some schools were excluded: other CPM schools and magnet schools. Mira Loma High School was left in the comparison group even though it has a magnet program for an International Baccalaureate Program. Note the sizable difference in SAT Math I scores.

California Academic Performance Index (API) Scores

	Santa Barbara scores	Average of ten schools
Dos Pueblos High School	751	695
San Marcos High School	711	679
Santa Barbara High School	660	613

Note: API is the “Academic Performance Index,” the score reported by the State of California that reflects the performance of the school on the state-mandated mathematics test.

SAT (Math 1) Scores

	Santa Barbara scores	Average of ten schools
Dos Pueblos High School	594	539
San Marcos High School	563	510
Santa Barbara High School	570	490

Percentage of students in science classes
(all three CPM schools combined)

Chemistry	Female		Male	
	Total	Hispanic	Total	Hispanic
CPM schools	34.0	26.3	28.7	28.3
Comparison	26.8	18.6	23.0	14.5
Differences	7.4 (28%)	7.7 (41%)	5.7 (25%)	15.8 (110%)

Physics	Female		Male	
	Total	Hispanic	Total	Hispanic
CPM schools	40.3	38.0	41.0	49.0
Comparison	10.1	6.8	14.1	5.6
Differences	30.2 (299%)	31.2 (459%)	26.9 (191%)	43.4 (775%)