

The impact of the use of College Preparatory Mathematics (CPM) on the Colorado Student Assessment Program (CSAP)

This report is based on the middle schools and high schools using College Preparatory Mathematics (CPM) in the state of Colorado. Schools using CPM were identified from the CPM database and data for the schools was found from the Colorado Department of Education. As middle schools differ in that some elect to start the CPM middle grades series in grade 6 and others in grade 7, scores for registered middle schools were reported for 7th and 8th grade. There are other schools using CPM in Colorado who are not reflected in these statistics; these are private schools that are exempt from the state test. Schools that are known to use the CPM curriculum with a small subset of students were withheld from the data, as it is impossible to distinguish CPM versus non-CPM students in these schools.

Chi-square tests of significance continually show a statistically significant difference in favor of CPM students at various grade levels—these are marked with an asterisk (*) in the tables below.

2009-2010

CSAP Examination by Grade	CPM Students—Percent Proficient & Advanced	All Colorado Students—Percent Proficient & Advanced	Ratio of CPM to State of Proficient Students
7th Grade* (27 schools & 5,786 students)	54%	49%	1.10
8th Grade* (29 schools & 5,702 students)	56%	51%	1.10
9th Grade* (29 schools & 6,859 students)	44%	39%	1.13
10th Grade* (30 schools & 6,336 students)	35%	30%	1.17

2008-2009

CSAP Examination by Grade	CPM Students—Percent Proficient & Advanced	All Colorado Students—Percent Proficient & Advanced	Ratio of CPM to State of Proficient Students
7th Grade* (26 schools & 6,486 students)	61%	54%	1.13
8th Grade* (28 schools & 6,496 students)	58%	50%	1.16
9th Grade* (28 schools & 7,353 students)	39%	35%	1.11
10th Grade* (29 schools & 6,899 students)	35%	30%	1.17

2007-2008

CSAP Examination by Grade	CPM Students—Percent Proficient & Advanced	All Colorado Students—Percent Proficient & Advanced	Ratio of CPM to State of Proficient Students
7th Grade* (39 schools & 8,273 students)	51%	46%	1.11
8th Grade* (28 schools & 8,094 students)	54%	47%	1.14
9th Grade* (25 schools & 7,889 students)	42%	38%	1.11
10th Grade* (26 schools & 7,556 students)	34%	30%	1.13

2006-2007

CSAP Examination by Grade	CPM Students—Percent Proficient & Advanced	All Colorado Students—Percent Proficient & Advanced	Ratio of CPM to State of Proficient Students
7th Grade* (34 schools & 7,007 students)	56%	50%	1.12
8th Grade* (36 schools & 7,524 students)	53%	46%	1.15
9th Grade* (30 schools & 7,556 students)	39%	35%	1.11
10th Grade* (29 schools & 7,041 students)	34%	30%	1.13

2005-2006

CSAP Examination by Grade	CPM Students—Percent Proficient & Advanced	All Colorado Students—Percent Proficient & Advanced	Ratio of CPM to State of Proficient Students
7th Grade* (18 schools & 4,055 students)	53%	45%	1.18
8th Grade* (19 schools & 4,062 students)	54%	45%	1.2
9th Grade* (17 schools & 5,898 students)	43%	38%	1.13
10th Grade* (17 schools & 5,362 students)	34%	31%	1.09

*A chi-square tests show a statistically significant difference in favor of CPM students for these grade levels and the given years at a level of $p < 0.01$.