



The **California Mathematics Project (CMP)** is a statewide professional development network of K–12 and university mathematics educators dedicated to the pursuit of excellence in the subject. Each CMP site supports collaboration among and between teachers and university faculty to improve classroom instruction and student learning.

CMP seeks to develop and enhance K–12 teachers' content knowledge and instructional strategies in alignment with the Common Core State Standards (CCSS) in mathematics and with English Language Development (ELD) standards. CMP is dedicated to high-quality instruction with a special focus on English learners, native speakers of English with low literacy and students from underserved communities. The project partners with schools and/or districts to support retention and excellence among mathematics teachers in low-income communities.

CONTENT

CMP provides site-based workshops, institutes and ongoing professional development, which include teacher practices that focus on improving K–12 students' proficiency in mathematics through various means:

- Collaboration between mathematics faculty and K–12 mathematics teachers
- Balanced mathematics programs that include basic computation skills, conceptual understanding and problem solving
- Students empowered by developing mathematical reasoning — through gathering data, analyzing evidence and constructing arguments to support hypotheses
- Strategies for working with English learners

LEADERSHIP

CMP actively develops teacher leaders through a variety of mathematics institutes, academies, workshops and targeted leadership events. These leaders, in turn, assist their colleagues in understanding the content presented in CMP programs, to ensure not only rigorous, standards-based instruction in the classroom, but also the design and development of effective assessments and the cultivation of collaboration among teachers.

OFFERINGS

CMP programs are carefully designed to meet the specific needs of mathematics teachers as well as those of schools and districts.

Professional Development and Support

The project sponsors various kinds of intensive support, such as professional development institutes, coursework in mathematics, support for students and administrators, and preparation for the California Subject Examination for Teachers. Programs often target specific groups, including new teachers, teachers from hard-to-staff schools and teachers seeking certification.

CANMEE Lesson Study

The CMP, along with seven partners, has been operating as a community of practice to support and sustain mathematics education for each and every student, under the title of the California Action Network for Mathematics Equity and Excellence (CANMEE). CANMEE received funding from the S. D. Bechtel, Jr. Foundation to create a statewide network of lesson study hubs. Each hub comprises a CMP regional site, a County Office of Education and a local school or district. CANMEE has been using lesson study continuously to improve mathematics learning and instruction, ensuring that mathematics education is rigorous, accessible and equitable for all. CANMEE also holds trainings for lesson study facilitators and commentators, and it hosts an annual convening that gathers lesson study practitioners from across the state.

Alternative High School Mathematics Courses

In 2016, the California Department of Education created the California Mathematics Readiness Challenge Initiative to fund professional learning opportunities for collaborative teams of educators, administrators and faculty. These teams would design and implement grade-12 experiences that prepare students for college-level mathematics courses.

Five different entities were funded to create a senior-level mathematics course. Students who pass the course will be able to take credit-bearing mathematics courses upon acceptance to college. Several CMP sites helped develop and launch the courses: the Monterey Bay Area Mathematics Project at UC Santa Cruz; the Santa Clara Valley Mathematics Project at San Jose State University; the CMP at CSU Sacramento; the San Gabriel Valley Mathematics Project at CSU Pomona; the Inland Counties Mathematics Project at CSU San Bernardino; the San Diego Mathematics Project at SDSU; and the CMP statewide office. The goal is to have the new mathematics courses — all of which are A-G-approved — available to California teachers and schools at no cost.

IMPACT

CMP has been a consistent advocate for improving access to high-quality K–12 mathematics instruction. This advocacy includes:

- Maintaining a statewide network of regional sites that seek to strengthen teachers' subject knowledge and instructional skills in mathematics
- Providing stability for regional sites through their integration into the institutional fabric of sponsoring universities
- Building strong professional learning communities that foster teacher retention and stability, especially in underserved schools and districts

Many CMP sites have also been successful in obtaining grants to support professional development in mathematics and increase student achievement. A selection of the granting organizations includes:

- S. D. Bechtel, Jr. Foundation
- GEAR UP
- Math and Science Teacher Initiative (MSTI)
- Noyce Foundation

“Teaching mathematics is only a job. It becomes a profession when like-minded educators work collaboratively to bring life to the work ... An ethos of change, hope and constant improvement is what drives, inspires and motivates math teachers to transform their job into a profession.”

CMP SITE DIRECTOR

CONTACT

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6,945

Number of educators served
(2018–19)

1,098

Number of schools served (2018–19)

REGIONAL SITES

Bay Area Mathematics Project

Cal Poly/CSU Bakersfield
Mathematics Project

CSU Dominguez Hills
Mathematics Project

CSU Sacramento Mathematics Project

Central California Mathematics Project

Chico Mathematics Project

Inland Counties Mathematics Project

Irvine Mathematics Project

Monterey Bay Area Mathematics Project

North Bay Mathematics Project

Orange County Mathematics Project
at CSU Fullerton

San Diego Mathematics Project

San Gabriel Valley California
Mathematics Project

San Joaquin Valley Mathematics Project

Santa Clara Valley Mathematics Project

UC Davis Mathematics Project

UCLA Mathematics Project

UCSB Mathematics Project

UCSD Mathematics Project



CMP is a member of the **California Subject Matter Project (CSMP)**, a network of nine discipline-specific projects administered by the University of California Office of the President (UCOP) that provide high-quality professional learning for K–12 teachers throughout California. Each project is represented statewide by regional sites on the campuses of UC, California State University and independent colleges and universities. For more information about CSMP, please visit csmp.online.