

# Introducing the CPM Program

The CPM courses offer a **balanced mathematics program** that has been successful with students of all abilities. By “balanced” we mean that the courses teach basic skills and procedures, conceptual understanding, and problem solving strategies (ways of thinking mathematically).

CPM textbooks look different—that is why they are effective. The goal of CPM writers and mentors is to provide a mathematics program that fosters **long-term learning and retention**. Classroom teachers write the materials using **research-based methods** and effective, **structured lessons** from their classes. The courses teach conceptual understanding concurrent with the development of rules and algorithms. There are three core, research-based elements to the program:

1. **Problem-based learning** fosters understanding. The textbooks provide structured investigations with clear objectives, focus questions, and guidance for solving challenging problems and consolidating the content of the lessons.
2. **Structured study teams**, in concert with teacher interaction, foster dialogue and mathematical discourse among the students while enhancing long-term learning.
3. **Spaced practice** with concepts and skills develop mastery over time and promote better long-term learning.

The lessons in the CPM textbooks offer multiple approaches for learning mathematics. Wherever possible, ideas are presented visually and kinesthetically to help students understand ideas before moving to abstractions.

- Structured study teams
- Class discussions
- Targeted lectures
- Individual interaction with students
- Questioning strategies
- Closure for lessons and chapters

## Assessment

- Daily interaction with study teams and individuals.
- Multiple strategies:
  - \*Individual tests
  - \*Team assessments
  - \*Participation quizzes
  - \*Student presentations
  - \*Portfolios
- Mastery over time
  - \*Several opportunities to learn ideas
  - \*Depth and extensions

## Student support

- Regular interaction with the teacher
- Hotmath homework help
- *Extra Practice* booklet
- *Parent Guide*
- “Math Notes” boxes that formalize ideas
- “What have I learned” in the Chapter Closure sections for review

## Teacher support

- Chapter overviews
- Detailed lesson notes
  - \*Developmental problems
  - \*Team and student interaction
  - \*Closure
- *Extra Practice* and *Parent Guide* to bolster their mathematics
- Professional development workshops

