

## SMMUSD COURSE DESCRIPTION

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### **MATH CORE 6:**

This course uses the inquiry and Standards-based *Connected Mathematics Project 3 (CMP3)* textbook. Mathematical concepts are embedded within engaging problems and projects. Students develop skills and understanding as they explore the problems individually, in a group, and as a whole class. The in-class development problems and the homework exercises give students practice throughout the year with valuable standards-based concepts, pre-algebra related skills, and algorithms. Students are required to write in both an analytical and evidence-based manner.

In grade 6, instructional time will focus on four critical areas: (1) connecting ratio and rate to whole number multiplication and division, and using concepts of ratio and rate to solve problems; (2) completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers; (3) writing, interpreting, and using expressions and equations; and (4) developing understanding of statistical thinking. Students also work toward fluency with multi-digit division, multi-digit decimal operations, and fractions operations.

Students will develop a strong grasp of the Mathematical Practices:

1. Make Sense of problems and persevere in solving them.
  2. Reason abstractly and quantitatively.
  3. Construct viable arguments and critique the reasoning of others.
  4. Model with mathematics.
  5. Use appropriate tools strategically.
  6. Attend to precision.
  7. Look for and make use of structure.
  8. Look for and express regularity in repeated reasoning.
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