

Report:

Over the course of the last two years, all mathematics teachers from both Coronado High School (CHS) and Coronado Middle School (CMS) researched integrated mathematics and appropriate instructional materials to support integrated mathematics courses for grades 6-12. The secondary mathematics team did an in-depth review of their teacher-created instructional materials and available publisher-created materials for integrated mathematics, and received guidance from San Diego County Office of Education mathematics coordinator as to high quality mathematics instructional materials widely used for integrated mathematics courses in San Diego County and the state of California. All CHS and CMS mathematics teachers recommend the purchase of *College Preparatory Mathematics (CPM), Core Connections Series, 2015* for the following courses:

- Math 6 and 6A, Math 7 and 7A, Math 8, and Integrated 1 for Coronado Middle School
- Integrated I, II, and III, and Pre-Calculus with Trigonometry for Coronado High School

The secondary mathematics department chose CPM because it meets pedagogy inherent in the CA State Standards for mathematics and the CA Mathematics Framework in an integrated and logical manner, and as a complete program for all secondary mathematics. CPM lessons empower students through problem-based lessons, collaborative student study teams, communication of reasoning and practice with course concepts. The CPM curricula is informed by research and builds upon 25 years of experience in problem-based, student-centered curriculum embedding the mathematical practices within lessons focused on big ideas and mathematical connections. Learning strategies and pedagogy are research based. In addition, CPM trainers who are current and retired teachers using CPM, lead the eight days of implementation workshops that begin in summer and continue during the school year. Experiential workshops immerse teachers in a classroom environment implementing the standards for mathematical practice as they explore the curriculum content and develop teaching strategies for study teamwork. CPM courses balance procedural fluency (algorithms and basic skills), deep conceptual understanding, strategic competence (problem solving), and adaptive reasoning (transference and extension).

CMS and CHS math departments are requesting the following instructional materials. Numbers are based on staffing and enrollment projections for 2016-17:

* Textbooks and 8 Year e-Book Licenses	Cost Per Item	Number Needed	Total
Grade 6/6A	\$74.00	250	18,500.00
Grade 7/7A	\$74.00	290	21,460.00
Grade 8	\$74.00	270	19,980.00
Integrated I CMS/CHS	\$74.00	90 (CMS) 320 (CHS) = 410	30,340.00
Integrated II	\$74.00	355	26,270.00

Integrated III	\$74.00	315	23,310.00
Pre-Calculus	\$74.00	175	12,950.00
Teacher Resource Materials (print and e-Books)	\$225	26	\$5,850.00
Algebra Tiles	\$106	15	\$1,590.00
Tax	8%		\$12,820.00
Shipping	10%		\$16,025.00
Total	\$189,095.40		

Pricing options information:

- ordering the print option alone is not available.
- the e-Book alone is available at \$54.00 per student per 8 year license.

Additional resources to support transition to integrated mathematics for all secondary mathematics courses include:

.4 Teacher on Special Assignment (TOSA) to support secondary mathematics (temporary for 2016-17 and 2018-19)	Based on average certificated annual salary with tax/benefits of ~\$85,000	\$68,000.00
Per Diem Remuneration for Required 4 Day Summer Training (There is no cost to CPM for training and support)	Average certificated per diem of ~\$231 x 4 days x 15 teachers	\$13,860.00
Substitute Pay: 4 additional required training days during the 2016-17 school year for training	\$120/day x 4 x 15 teachers	\$7,200.00
Additional funding for related costs such as hourly pay for after-hours planning, training, cost of subs for release days, and any other related cost		\$21,844.60
Cost of CPM Instructional Materials (from above)		\$189,095.40
Total Cost of Materials and Support for Transition to Integrated Mathematics for CUSD Secondary Schools		\$300,000.00

Committee of secondary parents will review CPM materials before the final approval of the Governing Board scheduled for the May 19, 2016 meeting.