

**CVSS Mathematics Benchmark Tests
Grades One through Six
Cost Recovery Product Sales**

Over the past six years, CSI mathematics staff and elementary teachers have developed, implemented and revised a formative mathematics assessment system for grades one through six. The product of their labor is the *CVSS Mathematics Benchmark System of Formative Assessment*. The *CVSS Mathematics Benchmark System of Formative Assessment* is a standards-based system grounded in the concept that a student must demonstrate mastery (85%) on all concept tests. Assuming not all learners will initially score 85% on the first administration of a test; the system includes two additional, parallel forms of each test for re-teaching and re-testing. The system lends itself well to a variety of intervention programs, assisting teachers in the implementation of a re-teaching/re-testing cycle.

The *CVSS Mathematics Benchmark System of Formative Assessment* includes three forms of 79 examinations ranging from math facts to algebra and probability. Each grade level fully aligns with California’s rigorous Content Standards in Mathematics and includes appropriate math facts assessments.

The *CVSS Mathematics Benchmark System of Formative Assessment* ensures consistent rigor throughout a grade level across a school or a district. Over the past five years, the mathematics achievement of elementary students in the Clovis Unified School District reflects the effectiveness of the *CVSS Mathematics Benchmark System of Formative Assessment*. Both Title I and non-Title I schools have demonstrated consistent and sustained growth. Data from the May 2005 CST show 70% of students in grades two through six were proficient or advanced.

The development of the *CVSS Mathematics Benchmark System of Formative Assessment* involved the time and talents of many CUSD employees. It is estimated that over \$200,000 in district resources were expended in the development, production and revisions of these materials. In an effort to recover some of these costs, CUSD is making this unique formative assessment system, available to other school districts. Pricing would be school-based and participating schools would receive a CD containing PDF files for all benchmark tests for grades one through six as well as answer keys. The following pricing structure is being proposed.

Program CD	Elementary Schools with fewer than 400 students	\$2500
Program CD	Elementary Schools with more than 400 students	\$3500
In-service	One day staff training with three CUSD staff (optional)	\$3000 plus travel costs

The following charts profiles the scope of the *CVSS Mathematics Benchmark System of Formative Assessment*.

***CVSS Mathematics Benchmark System of Formative Assessment
Grades One through Three***

Grade Level	Timed Math Facts <i>3 forms of each test</i>	Benchmark Tests <i>3 forms of each test</i>
One	1.1 Addition 1.2 Subtraction	1.3 Number Sense 1.4 Addition of Whole Numbers to 20 1.5 Subtraction of Whole Numbers to 20 1.6 Money 1.7 Measurement, Geometry, and Fractions 1.8 Algebra, Statistics and Math Reasoning 1.9 Addition of Two-Digit Whole Numbers 1.10 Subtraction of Two-Digit Whole Numbers
	First Grade Mathematics Benchmark Test System includes 30 tests	
Two	2.1 Addition 2.2 Subtraction	2.3 Addition and Subtraction Facts 2.4 Addition of Two-Digit Whole Numbers 2.5 Subtraction of Two-Digit Whole Numbers 2.6 Money and Coins 2.7 Number Sense 2.8 Addition and Subtraction of Three-Digit Whole Numbers 2.9 Measurement 2.10 Geometry, Fraction Concepts & Probability 2.11 Statistics and Data Analysis, Algebra 2.12 Multiplication and Division Concepts
	NOTE: <i>Mathematical Reasoning problems are integrated into all benchmark tests</i>	
Second Grade Mathematics Benchmark Test System includes 36 tests		
Grade Level	Timed Math Facts <i>3 forms of each test</i>	Benchmark Tests <i>3 forms of each test</i>
Three	3.1 Addition 3.2 Subtraction 3.3 Multiplication	3.4 Number Sense 3.5 Addition of Whole Numbers 3.6 Subtraction of Whole Numbers 3.7 Measurement 3.8 Multiplication of Whole Numbers 3.9 Division of Whole Numbers 3.10 Geometry 3.11 Fractions and Decimals 3.12 Statistics, Data Analysis & Probability 3.13 Algebra & Functions, Math Reasoning
	Third Grade Mathematics Benchmark Test System includes 39 tests	

***CVSS Mathematics Benchmark System of Formative Assessment
Grades Four through Six***

Grade Level	Timed Math Facts <i>3 forms of each test</i>	Benchmark Tests <i>3 forms of each test</i>
Four	4.1 Addition 4.2 Subtraction 4.3 Multiplication 4.4 Division	4.5 Number Sense 4.6 Multiplication of Whole Numbers 4.7 Division of Whole Numbers 4.8 Fractions 4.9 Decimals 4.10 Statistics, Data Analysis & Probability 4.11 Geometry 4.12 Measurement 4.13 Algebra and Functions, Math Reasoning
	Fourth Grade Mathematics Benchmark Test System includes 39 tests	
Five	5.1 Addition 5.2 Subtraction 5.3 Multiplication 5.4 Division	5.5 Whole Number and Decimal Concepts. Addition and Subtraction 5.6 Statistics and Data Analysis 5.7 Multiplication and Division of Whole Numbers 5.8 Multiplication and Division of Decimals 5.9 Number Theory, Addition and Subtraction of Fractions 5.10 Multiplication and Division of Fractions 5.11 Algebra and Functions 5.12 Geometry 5.13 Measurement 5.14 Ratio, Percent and Probability 5.15 Math Reasoning
	Fifth Grade Mathematics Benchmark Test System includes 45 tests	
Six	6.1 Addition 6.2 Subtraction 6.3 Multiplication 6.4 Division	6.5 Whole Numbers and Decimals 6.6 Statistics and Data Analysis 6.7 Number Theory Addition and Subtraction of Fractions 6.8 Multiplication and Division of Fractions 6.9 Algebra Concepts and Integers 6.10 Algebra and Functions (Graphing) 6.11 Measurement and Geometry - Concepts 6.12 Ratio and Proportion 6.13 Percent 6.14 Probability 6.15 Measurement and Geometry – Perimeter, Areas and Volume 6.16 Math Reasoning
	Sixth Grade Mathematics Benchmark Test System includes 48 tests	