

Mathematics Program Selection Criteria- January 2008

Criteria	Program: Mathematics Expressions (Houghton Mifflin)
Alignment with GLE's	Program designed for K-5. Program aligns with the NCTM standards and the NECAP Grade Level Expectations: Numbers and Operations; Geometry and Measurement; Functions and Algebra; Data, Statistics and Probability
Research of Effectiveness	Math Expressions is based on researched effective methods of teaching and learning mathematics. The National Science Foundation funded a 10 year research project (<i>Children's Math Worlds Research Project</i>) that resulted in the development and refinement of this program.
Depth/breadth of textbook, workbook, resource materials, etc.	There are teacher materials, student workbooks, homework and remembering, Challenge Masters, and an Assessment Guide. Manipulative materials are available for the program as well as white boards for student use.
Assessments in classroom	Rubrics are provided for activity based assessments that require written explanations of performance tasks being assessed. Within unit quizzes are provided for each grade level. Each chapter has a unit test of multiple choice responses.
Parent communication component	Parent components include a parent component to the Math Expressions website as well as written letters that provide activities to reinforce skills being taught.
Enrichment component	A book of Challenge Masters accompanies the series. There are also differentiated instruction activities including enrichment activities in each chapter of the book.
Student Grouping (grade or ability level)	Opportunities for students to interact in pairs, small group, whole-class, and special groupings
Common Language with GLE's	Some vocabulary differences that may cause confusion with terms of the GLE's. Vocabulary is highlighted in the student activity book.
Teacher Support Materials and Training	Math Expressions Institutes are available. Each lesson also has a

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	teacher section on the website that explains alternate methods of instruction. Pacing guides and lesson planners are also part of the teacher's materials.
Problem Solving Emphasis	Minimal and very directed
Real-Life Applications	Minimal
Integration of Technology	Web materials are available for teachers, students, and family. Interactive materials are available on the website.
Current Flow into Middle School	This series ends at 5 th grade
Use of Manipulatives & Program Integration	Grades K and 1 have integrated units and for Grades 2-5 there are longer units on word problems, computation, algebra, and data with shorter units on geometry and measurement. Manipulatives are integrates throughout the levels in clusters of items.
Cost	