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Mathematics Laboratory

SRA's *Mathematics Laboratory* offers an innovative, self-paced mathematics supplement to review and practice key math skills. The program provides ongoing comprehensive math practice and review.

Mathematics Laboratory is backed by research-based strategies. Examples of cited research include, but are not limited to, the following:

- Fuson, K. C. (1992) Research on whole number addition and subtraction. In D. Grouws (Ed.) *Handbook of research on mathematics teaching and learning*. New York: Macmillan.
 - Identifies key strategies for teaching whole number addition and subtraction.
- Fuson, K. C., Wearne, D., Hiebert, J., Murray, H., Human, P., Olivier, A., Carpenter, T., and Fennema, E. (1997) Children's conceptual structures for multi-digit numbers and methods of multi-digit addition and subtraction. *Journal for Research in Mathematics Education.*, 28, 130-162.
 - Identifies effective strategies for developing multi-digit addition and subtraction abilities in children.

- Fuson, K. C. (2003) Developing Mathematical Power in Whole Number Operations. In *A Research Companion to Principles and Standards for School Mathematics*. National Council of Teachers of Mathematics. Reston, Virginia.
 - Reviews research on the following topics:
 - Real-World Situations, Problem Solving and Computation
 - Types of Real-World Addition, Subtraction, Multiplication, and Division Situations
 - Building Fluency with Computational Methods
 - Single-Digit and Multi-Digit Addition and Subtraction
 - Single-Digit and Multi-Digit Multiplication and Division
 - Computational Fluency

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