



Introduction to Movement and the Enhancement of Math Abilities in Young Children Workshop for Teachers

Children love to move. Learn how to harness that energy and turn it into enthusiasm for acquiring number concept skills, including skip counting, addition, subtraction, multiplication, division, hundred number grid, fractions, finding factors and algebra. See how whole and cross-body movements can motivate your students and simultaneously strengthen their math skills. A fast-paced workshop that will keep you hopping and having fun while moving to the numbers. More specifically, learn:

- ❖ How easy it is to successfully integrate the Math & Movement[®] program into the school day.
- ❖ A brief description of the research behind Math & Movement[®].
- ❖ How movement assists in the transfer and retention of new math skills.
- ❖ Classroom-tested, whole and cross-body movements that offer exercise while strengthening numeracy and additional high-level movements that offer aerobic exercise.
- ❖ Transition time movements for transitioning between activities in the classroom and outside of the classroom (e.g. walking in the hallway, waiting for lunch, physical education class or art.)
- ❖ Effective times during the day to include Math & Movement[®] activities.
- ❖ How Math & Movement[®] activities benefit your student's physical and mental well-being.
- ❖ How math practice can be an opportunity for imagination, creativity, cooperation, assertion, responsibility, self-control and leadership.
- ❖ How to train your students to develop and lead Math & Movement[®] activities.
- ❖ How to use Math & Movement[®] activities to improve classroom management and compliance.
- ❖ How Math & Movement[®] activities support literacy.
- ❖ How knowledge of skip counting facilitates learning multiplication, division, adding and subtracting fractions, factoring, algebra and advanced mathematics.
- ❖ How Math & Movement[®] is used to exceed state standards.
- ❖ How to use the Add/Subtract mat.
- ❖ How to use the Number Line Hopping mats.
- ❖ How to use the skip counting banners.
- ❖ Miscellaneous suggestions to help improve math ability in your school.

Target Audience: For teachers, educational support professionals, physical education and special education teachers for Pre-K through grade 5.

Workshop Length: Six hours

Workshop Location: Onsite

Maximum Attendance: Unlimited number of teachers and staff for one elementary school.

Workshop objectives:

1. To provide an overview of and rationale for why teachers should consider the use of movement activities to enhance mathematical learning in young pupils.
2. To demonstrate movement activities which enhance mathematical ability, for teachers to use while working with young children.
3. To describe strategies and procedures for teachers to use in training students, teachers and parents to use these movement exercises.
4. To share ways of documenting the effectiveness of these methods.

Workshop presenter:

Suzy Koontz is an educational consultant, actuary, former math teacher, founder of the Math & Movement® program and author of *Multiply With Me, Learning to Multiply Can Be Fun, Training Manual for the Math and Movement® Program for Elementary Schools, Spelling Animals I, Survival Models Made Easy, and Risk Theory Made Easy*. She has led pilot studies where first graders used her movement activities to easily learn to skip count and multiply. Suzy Koontz presented *Movement and the Enhancement of Math Abilities* at the National Council of Teachers of Mathematics (NCTM) annual conference in Washington D.C., in April 2009. She will present *Algebraic Strategies for Enhancing Visual Discrimination and Numeracy in Children* at the 2010 annual NCTM conference (San Diego, April 2010). Formerly of Syracuse, New York, she now resides in Ithaca, New York, with her husband and four daughters.