



## Moving Numeracy

### Creating Numerate Individuals with the use of Educational Kinesiology (Brain Gym®) 13<sup>th</sup> and 14<sup>th</sup> November 2010, Bangor

Taught by Sue Peace BSc, MEd, AMBDA, SpLDAPC, KFRP

Educational Kinesiologist/ Accredited Brain Gym® Consultant/Instructor/Teacher of Mathematics and Literacy.

You will be able to use the information from the course with the whole class, individuals, small groups of pupils or adults.

The program helps students to develop self esteem, which helps them deal with day to day maths. It is based on the importance of movement and awareness of specific cognitive abilities.



### The course deals with the following Numeracy Issues

- Dyscalculia: Developing an understanding of number as quantity. Knowing that 4 balls are the same quantity as 4 hats.
- The concept of equivalence: Understanding that
  - 3 sessions of 5 minute intervals is equivalent to 15 minutes
  - four 5 pence coins are equivalent to a 20 pence coin
  - six lengths of string, 5 centimetres long, adds to 30 centimetres of string
- Perception: seeing the answer to a problem
  - Insight into a solution involving number and quantity
  - Being able to view an answer in the mind and know how to use the arithmetic to solve it
  - Physical issues which challenge being able to read the clock or understand intuitively, the time of day
- The meaning of place value: Understanding units, tens, hundreds etc and hence comprehending the size and quantity of a number
- The concept of length, area and volume
- Fractions
- Decimals

- Sequencing: Setting out sums and other maths problems
- Abstractness: cognitive issue and the ability to comprehend them and express solutions to them

The developmental stages affecting the understanding of these concepts, which are vital to the acquisition of numeracy, will be studied and appropriate movements and balances developed. There will be a need to address directional issues, vision and perception.

Brain Gym® and movements to aid the integration of numeracy concepts will be used throughout the course and course participants will learn how to weave this new work into the work already being done with clients.

Course Tutor: Sue Peace

Dyscalculia, dyslexia and dyspraxia are her main fields of expertise and she has researched the methods of "Moving and Learning" through the system of Brain Gym®. At present she is developing teaching methods to help students who are dyslexic, dyscalculic and dyspraxic, having completed a higher degree in this field at Bangor in 2006. Sue is an experienced teacher who has taught mathematics in Australia and U.K. at every Key Stage level, including GCSE and A Levels.

Sue works professionally as a teacher and Brain Gym® consultant dedicated to helping children and adults reach their learning potential. She is an accredited Brain Gym Instructor and holds the SpLDAPC (Specific Learning Difficulties Professional Associate Consultant) specialised teaching status from PATOSS (Professional Association of Teachers of Special Education) and the AMBDA (Associate Member of the British Dyslexia Association) from the British Dyslexia Association. Sue is also a Professional Member of the Kinesiology Federation and the Educational Kinesiology Foundation U.K. Published work includes "An Educational Kinesiology Approach to Dyscalculia", PATOSS Bulletin, June 2007.

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