

Brain Development with Mental Math

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The Abacus is used as tool for learning math/arithmetic.

Benefits of the Abacus

One particular use for the abacus is teaching children simple mathematics and especially multiplication. The abacus is an excellent substitute for rote memorization of multiplication tables, which some young children find daunting. The abacus is also an excellent tool for teaching other base numbering systems since it easily adapts itself to any base.

Children naturally have vast potential of energy and brain power. But most parents do not know how to tap into the depths of these young minds in the right way and thus fail to realize and nurture these young minds to their fullest potential.

Functions of Brain

Our brain has two hemispheres, the LEFT brain and the RIGHT brain. About 95% of our children use only the LEFT brain. They fail to use the RIGHT brain which is the seat and origin of intelligence.



LEFT brain - Analyzing Information, Concerning Languages & Sound.

RIGHT brain - Integrating Information, Thinking & Creativity.

The Left and Right brains have their own specialized powers and functions. Our task is to activate BOTH parts of the brain simultaneously. By using BOTH the parts of brain, students can more fully realize their great potential. But...

...how can we motivate BOTH parts of the brain at a time?

Learning abacus can accomplish this goal.

Abacus is a Latin word that has its origins in the Greek words abax or abakon (meaning "table" or "tablet") which in turn, possibly originated from the Semitic word abq, meaning "sand". The abacus is an instrument, a manual tool invented by the Chinese 2000 years ago. We offer training using the Japanese Soroban abacus, which has one upper row of beads and four lower rows. We have found the Soroban abacus particularly effective for teaching mathematical calculating skills to young children.

Using an abacus, a child can do all arithmetic calculations up to 10 digits and master the skill of doing it mentally, without relying on modern devices such as calculators.

There are procedures and training methodologies to master abacus use. When children use both hands to move the beads for small and large arithmetic calculations, the quick communication between hands and brain stimulates brain cells, promoting quick, balanced and whole brain development.

Using the abacus also:

- Fosters a greater sense of numbers.
- Helps develop an intuitive understanding of numbers through their concrete representation.
- Fosters one's trust in the process of calculation by enabling one to observe it in action.
- Manifests the concept of decimal places and the progression of units by tens physically.
- Instantly accomplishes addition and subtraction when numbers are placed on the abacus.
- Improves understanding of compounded numbers (through the use of supplementary numbers for 5 and 10).
- Helps in developing the beneficial qualities of concentration, patience, and endurance.
- Fosters one's confidence in calculation.
- Uses a left to right calculation method, which makes quick estimation and rounding off possible.
- Works on the decimal rather than fractional system, an easy progression to digital systems.
- Develops mental calculation, which is the ultimate resource.
- Develops the right brain tremendously.
- Leads to greater mental capacity.
- Expresses large numbers simply and easily.
- Provides a sense of achievement as one's proficiency improves.

Abacus education enhances progress in various abilities. Scientific analyses have demonstrated the effectiveness of abacus training in improving the following six abilities:

- Ability to concentrate (Concentration)
- Ability to visualize and to be inspired (Inspiration)
- Ability to memorize (Memorization)
- Ability to observe attentively (Insight)
- Ability to process information (Information processing)
- Ability to listen and read quickly (Speed reading and listening)