



**JUNIOR SOLUTIONS**  
for Learning Difficulties

## *Kinesthetic Learning Intervention Solution for YOUR CHILD*

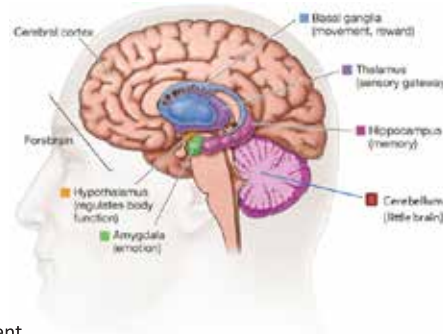
### The Role of KLI in Brain Activation

When children do not develop according to the child's development milestone, the thinking brain will be distracted, causing deficiency in cognitive functioning. 3 important parts of the brain that are involved in KLI:

**Basal ganglia** – Receives and integrates information involved in motor control, movements and learning. It allows for smooth coordination between learning and movements.

**Cerebellum (Little Brain)** – Coordinates and controls different groups of muscles, including balance, posture, and equilibrium.

**Cerebral cortex** – Responsible for processing different types of sensory information, different parts of the cortex are stimulated through different activities. For example, jumping on a trampoline while throwing color balls into different baskets will activate the primary motor cortex (jumping), occipital cortex (eye-tracking), and prefrontal cortex (sorting colors).



### Who Benefits from KLI?

Everyone can benefit from kinesthetic learning. In particular, individuals presented with symptoms such as below stand to gain the most with KLI:

#### **Behavior**

- Hyperactivity or restlessness (Moving constantly)
- Highly aroused
- Under aroused
- Oppositional behavior
- Poor compliance
- Temper tantrums

#### **Psychological**

- Low motivation
- Low self-esteem
- Family issues
- Not interested in learning

#### **Cognitive**

- Short attention span
- Lose interest quickly
- Easily distracted
- Slow learner
- Poor memory

In KLI, we strive to activate and connect the performance of basal ganglia, cerebellum, and cerebral cortex to improve **YOUR CHILD'S LEARNING!!**




## What is Kinesthetic Learning Intervention?


**K:** Kinesthetic is learning through our different senses such as touching, tasting, smelling, seeing, moving, and hearing. Junior Solutions (JS) aims to facilitate kinesthetic as the learning fundamental. We incorporate kinesthetic into daily learning because learning is best retained when our senses are engaged. For example, you are more likely to remember the songs you sang with a childhood friend or when sang with some funny dances; or that the sound of firecrackers during New Year will trigger special flashback of memories.


Research has shown that 68% of individuals preferred kinesthetic method of learning and kinesthetic learning activities helps improve information transfer, problem solving, critical thinking, and understanding. Thus, kinesthetic learning has been shown to increase confidence when carrying out instructions and completing tasks.

**L:** Learning means the acquisition of knowledge or skills through study, experience or being taught. **At JS, we focus on creative teaching and learning through play, work, and activities.**

JS uses different mediums such as visual, auditory, and tactile tools to make teaching and learning FUN. These aids are used as a motivational tool to enhance the learning process.

 Visual aids are any devices or materials which can be used to make the learning experience more real, more accurate, more interesting, and more interactive.

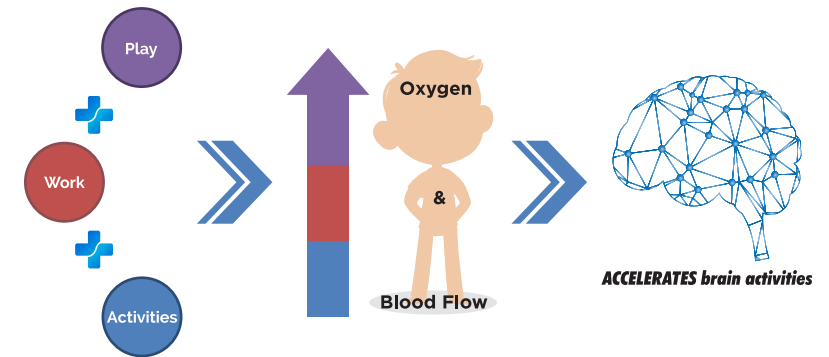
 Auditory modes of training will be incorporated into the learning process. Auditory attention is important for an individual to developed auditory intelligence such as being able to follow verbal instructions and verbal learning. This means that an individual learns to solve complex problems, come to conclusions and overall learning using language alone.

 Sensory play helps develop senses of the body such as motor skills (fine & gross), coordination skills, and balancing skills. These activities facilitate curiosity and exploration in an individual's environment which strengthens and refine the threshold for different sensory formation. In other words it helps the brain to create stronger connections for processing and integrating sensory information.

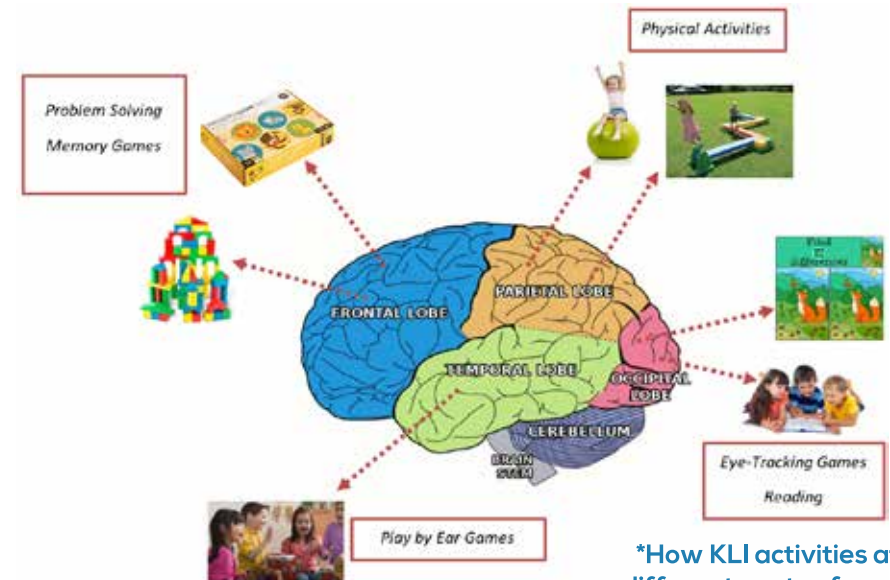
**||:** Motor performance and higher-order cognitive functions have always been found to be correlated. The intervention program at JS combines both kinesthetic and different learning styles to help improve the well-being and quality of life of children. Combining kinesthetic into learning helps enhance brain development by increasing connections of brain's pathways.

## How does kinesthetic learning affect the brain??

Kinesthetic learning activates various senses via different forms of play, work, and activities which increase oxygen and blood flow to the brain. Such stimulation accelerates brain activities in different parts of the brain.



Sitting passively limits blood flow and oxygen to the brain. On the contrary, when learning is made actively, the brain is more likely to respond faster and attentively. Thus, an activity that involves memorizing would stimulate executive functioning (frontal lobe) while an eye tracking game would help improve visual activation and attention (occipital lobe).



**\*How KLI activities affect different parts of our brain\***