

Dance Concept: Levels

This week, we explored Levels - Low, Middle and High! The brain and body correspond with three levels; feet with our reptilian (low) brain, waist with our emotional (mid) brain, and head with our processing (high) brain (see brain image in next page).

When we do:

- Low level movements like floor time/tummy time, it organizes the reptilian brain
- Crawling & middle level movements stimulates the emotional brain
- Vertical & high level movements stimulates the thinking brain

When we move up and down THROUGH these 3 different levels physically, we are helping the brain create connections between the different levels of the brain. The more we move up and down, the more connections/pathways are created and the more quickly and automated information will flow up and down the brains. That is what an integrated brain means!

When we've built these connections up and down the brain, it'll help us when we need to help our children move through these different levels quickly. For example when our kiddos are upset, they're very much so in the emotional (mid) brain, so first connect with them on an emotional level to tell them that we understand them and see where they're coming from. When we do that, they automatically disarm themselves and becomes less defensive because they feel safe and heard and gets them out of their fight or flight response. From there, you bring them up to their high brain by talking through what happened and process the issue together and problem solve and connecting it back to how they're feeling. The more we practice this, the more quickly and automatically they'll be able to do this in the future because the connections are strong. You can read more about this in Dr. Dan Siegel's Book, The Whole Brain Child.

Lastly, you can see how movement activities in the different levels develops different cognitive skills in the chart below.



Movement is the Gateway to Learning

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Physical Activities Build Mental Capabilities

Physical mastery leads to mental mastery and develops the whole brain.

Brain Area	Movement Activity	Cognitive Outcome
Reptilian Brain	Grasping, Crawling, Walking,	Hand-eye coordination
	Reaching, Turning, Pulling, Pushing,	Gross motor skills
	Touching	Pre-writing ability
Cerebellum	Spinning, Balancing, Rolling,	Fine motor coordination
	Listening, Swinging, Somersaults	Reading skills
		Writing skills
Mammalian Brain	Stroking, Cuddling, Massage,	Social skills
	different kinds of tactile touch,	Cooperation
	Playing together	Confidence & security
Primate Brain	Dancing to music	Math, logical thinking
	Working with patterns of movement	Problem solving
	Following patterns & sequences	Fluent reading, spelling
	Obstacle courses	Musical ability

PRIMATE "THINKING" BRAIN:

- Brain region. Neo cortex
- Responsible for sensory perception, spatial reasoning, generation of motor commands, conscious thought, intellectual memory
- Happy when learning, anticipating future reward, connected to higher purpose, in flow
- · Evolutionary role predicting brain that helps the community thrive

MAMMILIAN "FEELING" BRAIN:

- Brain region Limbic system (includes amygdala / fear center & nucleus accumbens / pleasure center."
- Responsible for: (positive) emotions, learning, emotional memory and spirituality
- · Happy when feel trust, social bonds, higher status
- · Evolutionary role social brain that helps the community survive

REPTILIAN "INSTINCTIVE" BRAIN:

- Brain region. brain stem
- Responsible for the 4 F's fight, flight, feed and fornicate (wired for danger and therefore negative emotions)
- Happy when safe from danger
- · Evolutionary role selfish brain that helps us survive individually

CEREBELLLUM

Responsible for autonomic motor movements, and provides postural control, balance and coordination