FOUNDATIONS FOR LEARNING

A framework for special educators supporting students with complex learning needs

MY STUDENT'S PRIMARY BRAIN AND BODY FUNCTIONS

THINKING

in the zone for learning
 self awareness •independence •daily living skills
 academic learning •executive function •attention
 critical thinking •decision making •reasoning •problem solving
 impulse control •short term/working memory •social skills
 speech/language •imagination/creative thinking
 sensory information influences higher order processes

FEELING

emotions/brain chemistry
 secure attachment to build relationships
 emotional memory and long-term memory processing
 understanding context *motivation *reward pathway *habit formation
 trigger protective fear/stress response of fright/flight/fight
 sensory information influences emotional and behavioural responses

MOVING

sensory information used for motor action
 coordination of breathing with other actions reflex integration/maturity
 muscle tone body awareness and coordination
 bilateral awareness and control postural control and balance fine and gross motor skills hand-eye coordination
 motor learning and motor memory refinement of planning, timing, sequencing and executing motor tasks with feedback

SURVIVING

detecting and tuning into movement, body position, touch, taste, smell, sound and visual sensory information
 interoception *hunger *thirst
 bladder/bowel control *digestion/vomiting
 sleep-wake cycle *arousal/alertness
 temperature *heart rate *breathing *pain
 coughing and sneezing *hormone and chemical balance

WAYS TO SUPPORT MY STUDENT

Explicit teaching to enhance academic, leisure and daily living skills.
 Individualised tools for learning based on strengths and learning styles
 e.g. visual, tactile, kinaesthetic, auditory.
 Continued support to get in the zone for learning with
 tools for self regulation and co-regulation when needed.
 Careful planning of the environment, activity and interaction for learning,
 managing stress and building resilience.
 Allow for processing and response time to think and learn.

Daily routines full of meaningful interactions to connect with others.
Emotional support to build a secure sense of self.
Co-regulate to get in the zone for learning - to be calm and alert.

 Support to regulate and control behavioural responses of fright/flight/fight and develop coping/calming strategies.

Support to develop helpful habits and establish strong motivators.
Considered use of sensory input to influence mood and emotions e.g. smell, touch, movement.

•Visual and other multi-sensory tools for memory storage and retrieval.
•Provide processing and response time with patience and empathy.

Rhythmic, meaningful, whole body movement.
Coordination of breathing with vocalising and other mouth and body movements.

Develop self/co-regulation strategies through movement.
Enhance learning through all the senses by actively participating.
Practice and refine motor skills in meaningful and motivating routines.

Develop strength, endurance, stability and flexibility.
 Facilitate mirroring, imitation and copying skills.

•Accommodate for processing and response time to learn by moving.

Support to feel safe, protected, secure and comforted.
Support to regulate from a fear/stress response of fright/flight/fight.
Safe spaces in classroom and school to calm down and regulate.
Calming, soothing and joyful sensory experiences.
Ways to make sense of their world and learn through all the senses.
Predictability and consistency in routines and interactions.
Tools to assist calm breathing.
Daily rhythms for rest - digest.
Support for smooth digestion/elimination.
Support to tune into bladder/bowel needs.

•Allow for processing and response time by simplifying and slowing down.

A calm, healthy and nurtured "surviving, moving and feeling brain" leads to a "thinking brain"







SENSORY PROCESSING. REGULATION OF ALERTNESS & BEHAVIOURAL RESPONSES