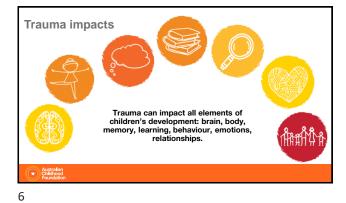




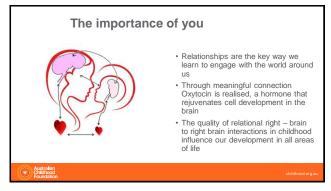




Trauma	Simple	Intergenerational
Developmental Trauma: Occurs when the foetus in utero, baby, child	Complex	Transgenerational
or adolescent experiences trauma, from abuse and neglect during key stages of development	Developmental	Historical
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**Neuronal connections** 

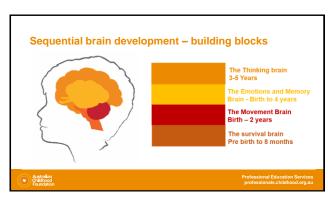
- Neurons Are the brains building blocks. These cells in our brain interact and communicate with other neurons
- The neural system has the ability for one neuron to communicate with up to 10,000 other neurons
- The newborn brain has approximately 100 billion neurons Neuroplasticity refers to the brain's capacity to:

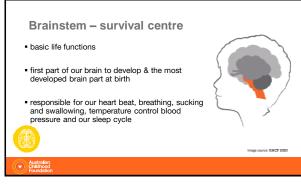
Grow new nerve cells

- Strengthen connections between nerve cells
- · Sprout new connections between different cells

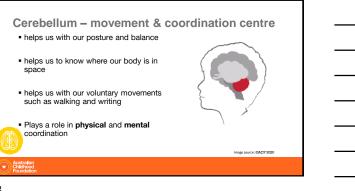


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#### The cerebellum under stress and trauma

- Difficulties coordinating cognitive processes such as planning & working memory
- difficulty in maintaining posture & balance
- · difficulty in undertaking tasks that require balance
- lack of awareness of their body in space
- · difficulty with voluntary movement tasks walking or writing

What do you notice and what can you do?

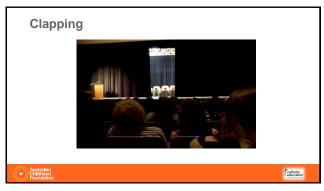
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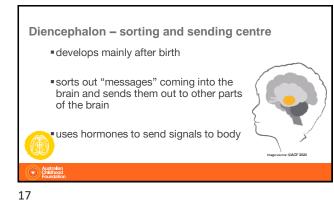
# Strategies for transforming – brainstem & cerebellum: RHYTHM, BREATH, MOVEMENT

- include soothing and calming activities, safe containment
- movement based activities
- include activities that have a rhythmic, repetitive element • include activities that have a balancing element & gross & fine motor skills breath based activities
- conduct a sensory audit ie: is it too hot or too cold, too noisy?
- include proprioceptive and interoceptive awareness and activities

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#### The diencephalon under stress and trauma

becomes overwhelmed and cannot sort the information



• is unable to send information to the memory and thinking parts of the brain - that pathway shuts down

it alerts the amygdala which sets of a sensory information response sequence

What do you notice?

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### Strategies for transforming – diencephalon

conduct a sensory audit

- provide calm, positive sensory experiences
- provide regular and predictable brain and body breaks
- Provide routine and prompts to support body systems and tuning in

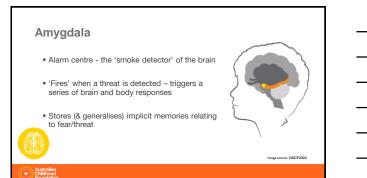
What might help during transitions, beginnings and endings?

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#### Limbic lobe - emotion and memory centre

- helps us attach an emotion to an experience or memory
- particularly involved with the emotions
- heavily involved in attachment processes
- develops mainly after birth
- two important brain parts the amygdala and the hippocampus are in this part of the brain
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## Strategies for transforming – Amygdala

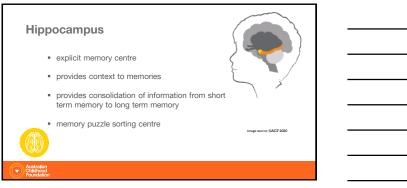
- Manage own reactions (stay calm & present)
- Don't rely on reason/thinking to reduce an escalation
- Regular outbreath activities
- Provide opportunities for rest and recovery
- Environmental audit (noise, smell, colour, person, situation).
   *Re-entry to the classroom should be a safe and positive transition whenever possible.*

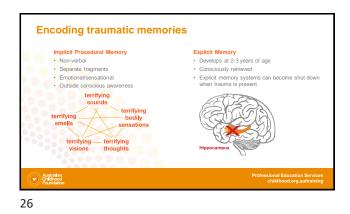
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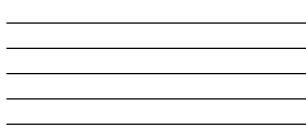
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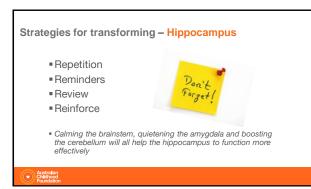


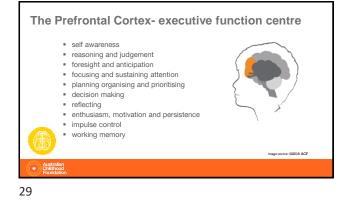
#### The hippocampus under stress and trauma

- Reduction of hippocampal volume up to 25% as a result of
- high levels of cortisol
- Can't place memories in time or place flooding & flashbacks
- Working memory, retention and recall (retrieval) capacity is severely impacted
- Narrative/autobiographical memory is affected

#### What do you notice?

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#### Cortical areas under stress and trauma

Unable to:

use foresight and anticipation, focus or sustain attention

plan, organise or prioritise or make decisions well

reflect or have self-awareness



be enthusiastic, motivated or persist with activities

use impulse control

#### What do you notice and what can you do?

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Strategies for transforming – cortical areas

Safety and stability are essential pre-requisites for cortical access

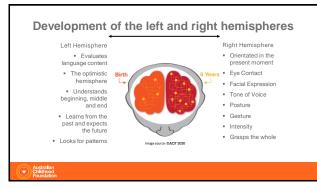
- problem solving activities and strategies
- Support to map and plan activities
- games card games boards games strategy games
- voluntary movement activities table top drumming, clapping etc
- thinking and choice games "Would you rather?"

Mindfulness activities

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Brain area	Function	Activity ideas
Brainstem & Diencephalon	Basic survival & sensory processing	Pacification or stimulation. Activities in the child's preferred sensory modality
Cerebellum	Coordination of movement	Using music, rhyme and movement activities
Limbic	Emotional processing	Building relational connection through plays, animals, games
Cortex	Thinking processes	Linking experiences and sensations to words and descriptions
Prefrontal cortex	Analytical and abstract thinking	Challenges and safe risk taking activities
	Image source:	©2018 ACF

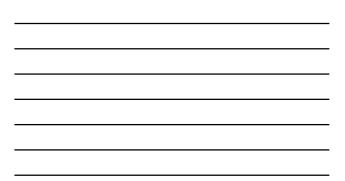
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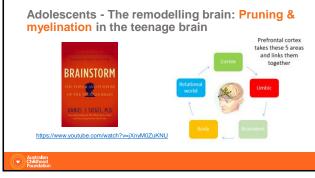


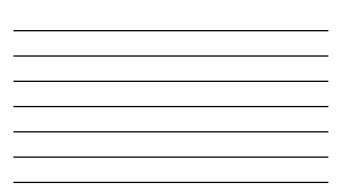




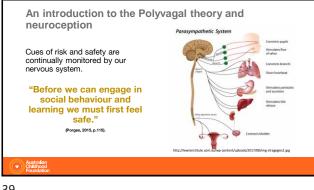








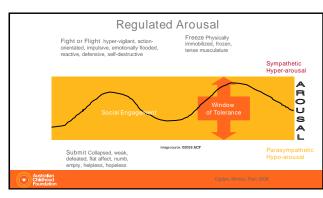




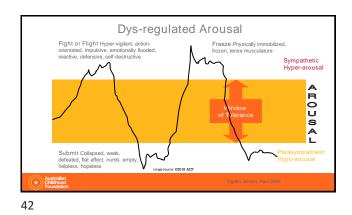




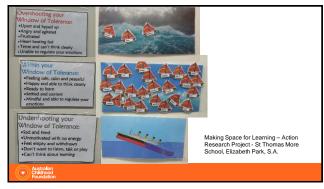




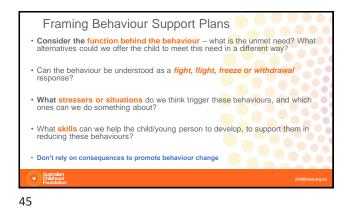


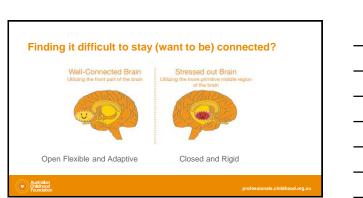




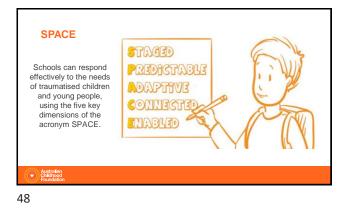


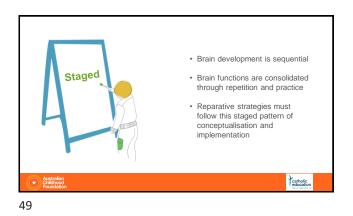


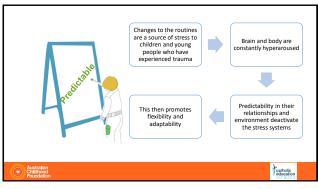




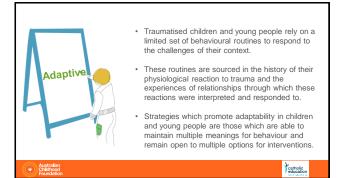


















## Things you can do

- Be predictable
- · Be consistent
- · Be connected
- Be present
- Promote understanding
- · Help them make meaning of their experiences
- Help children develop calming tools that make sense to them and that they can use
- · Grow with them!

Tentholic

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