













Culture is part of development

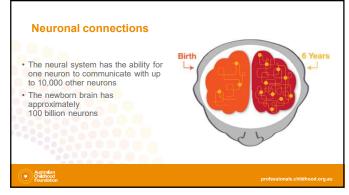
- Our culture influences our brain development
- Our relationships influence our culture and our culture influences our relationships
- Sensory data is interpreted according to our culture long before our ability to think about and understand our culture

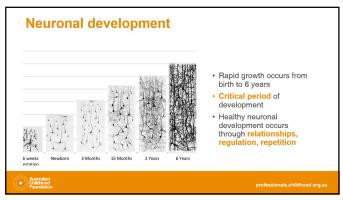


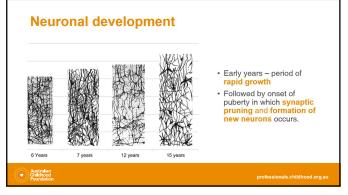
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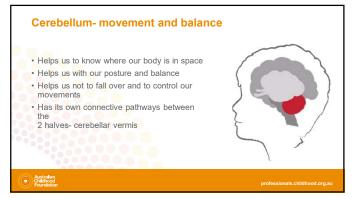






Basic life functions Basic life functions First part of our brain to develop This is the most developed brain part at birth Responsible for our heart beat, breathing, sucking, temperature control, blood pressure professionals.childhood.org.au

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Diencephalon - sorting & sending centre • This area of the brain develops mainly after birth • It sorts out messages coming into the brain and sends them • It uses hormones to send signals to body • Hormonal signals tell your body what it needs, eg. food, water, love

Superior Colliculus

- Processes visual threats looming objects identified by cells in the retina of the eye
- Retinal neuronal input received by Superior Colliculus which engages the body in Avoidance and defensive behaviours



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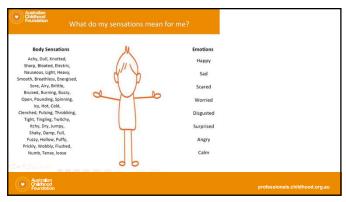
Limbic lobe- emotional gateway

- The part of the brain that helps us attach an emotion to an experience or memory
- This part of the brain is particularly involved with the emotions of fear and anger
- Also heavily involved in attachment processes
- This area develops mainly after birth

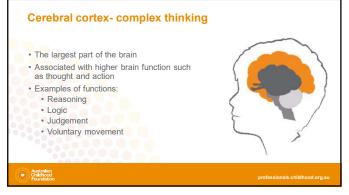


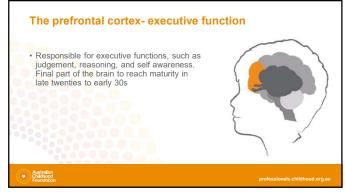
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Amygdala & Hippocampus Amygdala • the 'smoke detector' of the brain • is mature at birth • processes & stores implicit memories Hippocampus • matures between 2-3yrs of age • provides context to memories & embeds into long-term memory





Medial prefrontal cortex

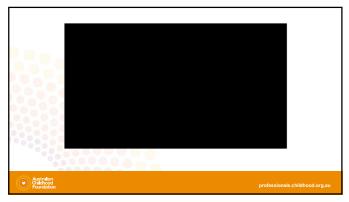
- Associated with perceptions of self and similar others
- Known as centre for mindfulness
- Involved in maternal bonding the parent child dyad and inter-subjectivity



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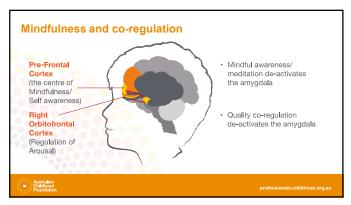
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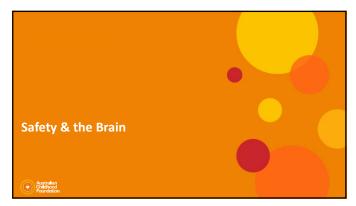
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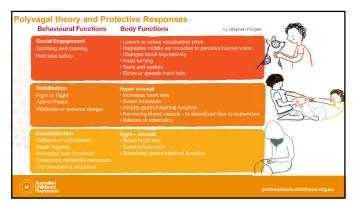
	TOTAL COLUMN	
Brainstem & Diencephalon	Basic survival & sensory processing	Pacification or stimulation. Activities in the child's preferred sensory modality
Cerebellum	Coordination of movement	Using music, rhyme and movement activities
Limbic	Emotional processing	Building relational connection through 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



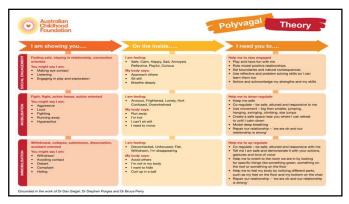


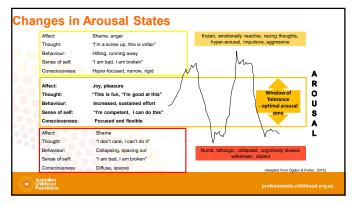


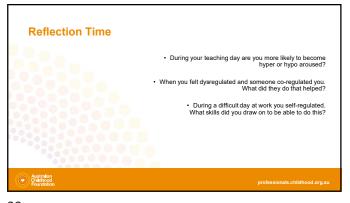


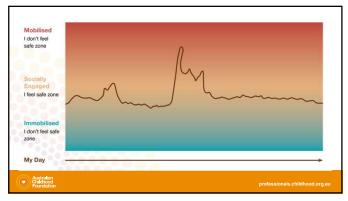


What trauma or stress response can look like Cognitions & Behaviours: Asking lots of questions Bravado (speech or actions) Attention, concentration and memory difficulties Black & White thinking, negative thoughts Generalised worries Rigid thinking & behaviours Compublisions/ repetitive behaviours Ruminating – what if's, should, cyclic thoughts Riminating – what if's, should, cyclic thoughts



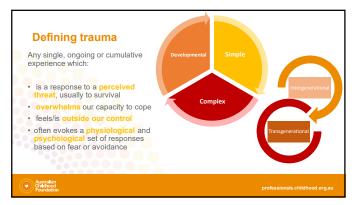


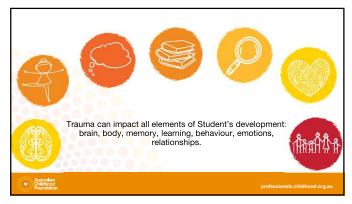




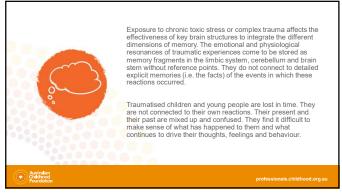












Traumatised children and young people stop practising integrating their feeling states (a function of their right hemisphere) with words and constructs (a function of their left hemisphere) they can use to know and communicate about their internal sensations. They have limited emotional literacy. They do not easily understand their own feelings. They find it hard to attribute language to them and describe them meaningfully for others to understand.



Consistent, congruent and validating responses give them effective blueprints for organising their internal world.

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Children need positive experiences of connection as the basis for them to learn how to:

- · problem solve;

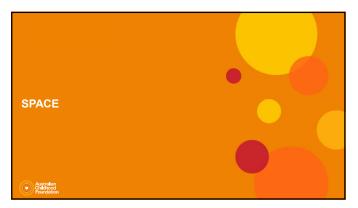
- problem solve;
 feel safe to explore new situations;
 manage their feelings;
 remember the positive feelings associated with forming relationships; and,
 have a working model for initiating and maintaining relationships.



Traumatised children have poor connective experiences. Their working models are built on fear and mistrust. Supporting children to re-experience relationships differently is the key to trauma recovery and change.

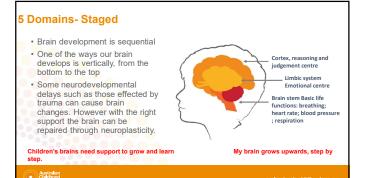
Trauma-based behaviour, in general, serves important adaptive functions. It often makes sense in the context in which it first emerged. However, it can become counterproductive if it continues after the need for it has changed.

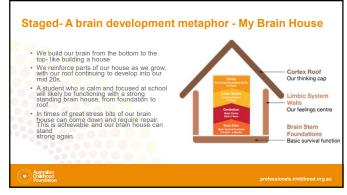
• Comfort Seeking
• Seeking connection
• Self-Protection
• What feelings are under the behaviour?
• What needs are under the behaviour?





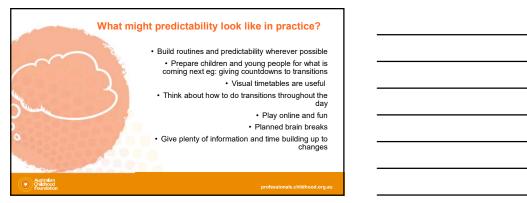
Domains	Domain Explanation	Translated into needs statements
Staged	The brain develops sequentially. Sophisticated functions only emerge after basic functions are consolidated. We should resource children in line with what their developing brain's need.	Children's brains need support to grow and learn My brain grows upwards step by step
Predictable	Uncertainty and unpredictability can disrupt emotional wellbeing and threaten social competence. Strategies which promote stability and familiarity enhance social and emotional wellbeing.	Children need to know what they can count on I feel better when I know what is coming next.
Adaptive	response to life challenges than new ones. Familiar routines may not always be constructive. Strategies which promote adaptability in children's behavioural routines are ones that meet children creatively with multiple options for intervention.	Children need support to grow up healthy and strong There are things I need to grow up healthy and strong.
798	relationships are affected by their experiences of relationships	Children need to feel like they are connected. I need to feel like I am connected.
Connected	Intention social competence. Strategies which priorite stability and temperature of the strategies which priorities and strategies of the strategies which promote adequate like in children's behavioural routines are ones that meet children or setting with multiple options for intervention. Children's internal image for forming, maintaining and being in relationships are affected by their experiences of relationships are throughout their lives. Negotiating relationships at school can be a proposed of stress when children have found them thand or unsafe in the past. Relationship with sale and consistent adults and peers form the foundation for change. All children can benefit from engaging in the process of understanding hismatewise more deeply. The capacity to identify feelings and learn how they relate to the body, thoughts, and between the strategies and learn how they relate to the body, thoughts, and	Children need to feel safe and know about what makes a safe connection. I need to feel safe. I need safe connections in my life.
Enabled	understanding themselves more deeply. The capacity to identify feelings and learn how they relate to the body, thoughts, and behaviours is a worthwhile life skill. Learning to communicate feelings with each other enriches social cohesion. Making sense of	Children need to know more about what makes them who they are. I grow stronger as I learn more about what makes me, me.



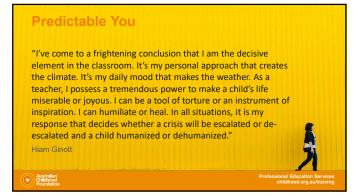


Staged/Safe- A brain development metaphor - My Brain House Our brain house can experience adversity. This can effect its structural integrity. If we get rattled our thinking cap roof can come off, leaving our feeling walls exposed. This can lead to strong emotions coming out without our thinking cap to help us contain our feelings. When this happens we can struggle to find words to communicate as our words flew off with our thinking cap roof. If we are deeply shook our roof and walls might come down and leave only our foundation. Our foundation is very strong and reliable. In these times we have our basic life functions to focus on to get us through- eg. our breathing, our heart beat. Everyone's rooves blow off from time to time. Given we have all built our own brain houses, we are all equipped to support each other to repair our houses together.





What might predictability look like in practice?				
• For students	relationships	physical activities		
• For families				
For all staff	routines	instructions		
Systemically				
	learning tasks	behavioural expectations		
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Building understanding of behaviour

- Behaviour is communication
- If we can understand what drives a behaviour, we can work out how to respond to it.
- If we can meet the need that is driving a behaviour, the behaviour can start to reduce.
- Behaviours are functional and almost always makes sense given their specific experiences of trauma.
- Openness and curiosity about behaviour is an important response





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What might adaptive look like in practice?

- See the needs beneath the behaviour
- Utilise strengths
- Psychoeducation in the virtual space
- Relationship, repetition, rhythm
- Use PACE
 - Playfulness
 - Acceptance
 Curiosity

 - Empathy



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Connected

- Student's relational templates for forming and being in relationships take shape as they grow. They learn what to expect and how to navigate relationships through their experiences of connection with those around them.
- We tend to expect things from relationships based on what we have known from past connections.
- Strategies to support students as their relational templates continue to develop emphasise relationships with safe and consistent adults and peers as the foundation for healthy, strong social and emotional functioning.

Students need to feel like they are connected.
Students need to feel safe and know about what makes

I need to feel like I am connected.
I need to feel safe.





What might Connected look like in practice?



- The student feels safe and connected
- Co-regulation occurs
- A feeling of connectedness is what you get when you feel like you belong in a group, when you are with others of your
- Mirror neurons -eye contact
- Attuned listening.

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Enabled

- Engaging students in the process of understanding themselves can build social and emotional well being
- Learning about and identifying feelings, understanding them and practice communicating them with others in socially cohesive ways bolsters emotional regulation.
- When students know about their qualities, their attributes and their talents they can feel good about themselves.
- Knowing about their own special story helps students to build a coherent self narrative

Students need to know more about what makes them who they are. I grow stronger as I learn more about what makes me, me.

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What might Enabled look like in practice?

- Creating safety
- Understand triggers
- Map behaviours
- Victoria Dept of Ed's ABC and Scatter Plot Data
- Classroom approaches for individuals
- Flight, Fight, Active Freeze or Submit responses are assisted to enable learning.



