

The Australian Childhood Foundation acknowledges the Aboriginal and Torres Strait Islander peoples as the traditional custodians of this land and waters. We pay our respects to their elders past and present and to their children who are the leaders of tomorrow. We acknowledge their history and living culture and the many thousands of years in which they have raised their children to be safe and strong.

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Safety

The content of this training can evoke strong emotions and may stir up personal experiences of trauma.

Please be mindful of your own wellbeing during this training and if you need support please ask the facilitator.



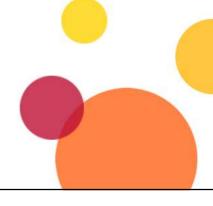


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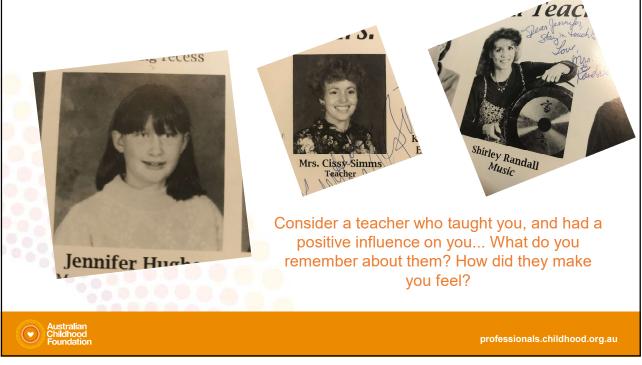
Learning outcomes

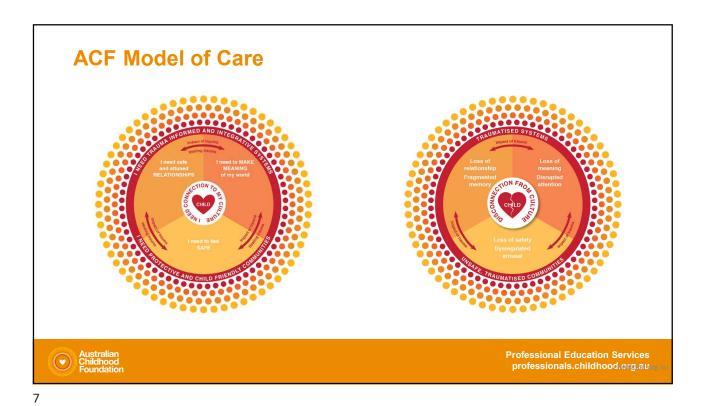
- ✓ Learn in detail about brain/body development through childhood
- ✓ Understand the ways that trauma shapes children and young people's states, needs and experiences
- ✓ Develop creative and evidence based approaches and practice strategies to enable children and young people to communicate and transform their experiences of trauma,
- ✓ Build approaches that resource change across all environments in which children and young people live, learn and relate.





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Defining trauma

Any single, ongoing or cumulative experience which:

• is a response to a perceived threat, usually to survival

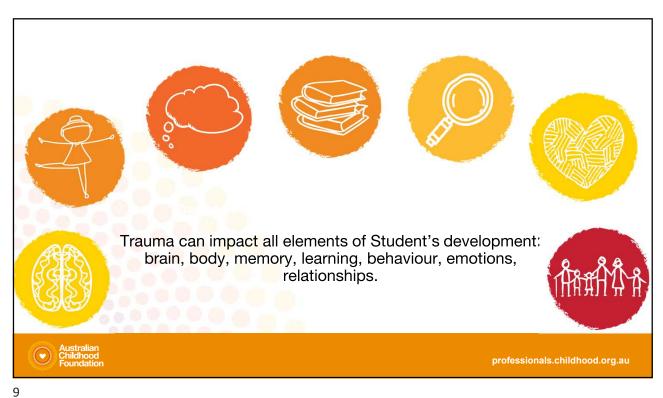
• overwhelms our capacity to cope

• feels/is outside our control

• often evokes a physiological and psychological set of responses based on fear or avoidance

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How did you become who you are?

Safety: Belonging
Relationships: Connection
Meaning making: Identity





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Brain development

- The brain develops through a mix of genetics and environmental factors.
- Key to this development are relationships
- The brain develops sequentially from the bottom up

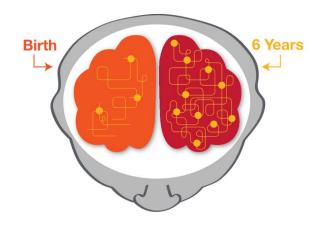


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Neuronal connections

- 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

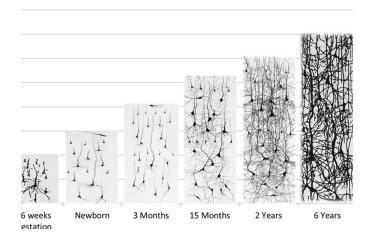




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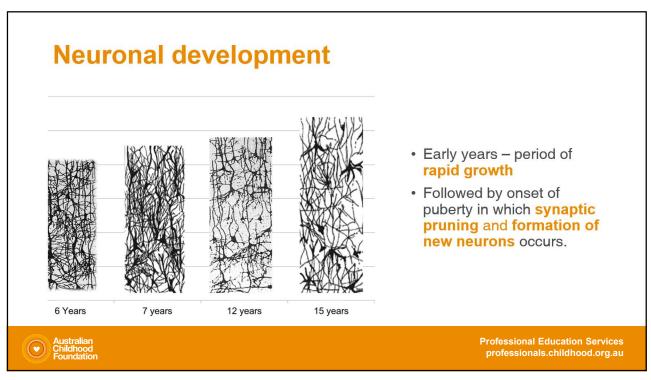
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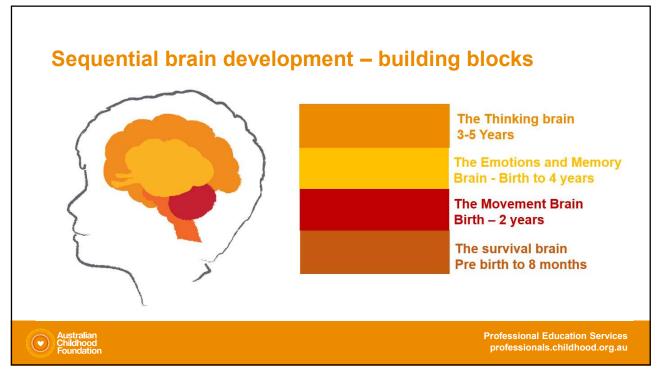
Neuronal development



- Rapid growth occurs from birth to 6 years
- Critical period of development
- Healthy neuronal development occurs through relationships, regulation, repetition

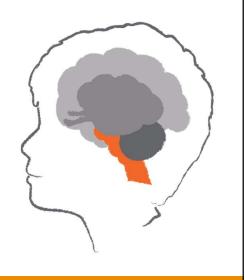
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Brainstem - basic life functions

- · 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



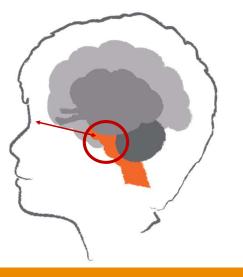


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Superior Colliculus

- 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

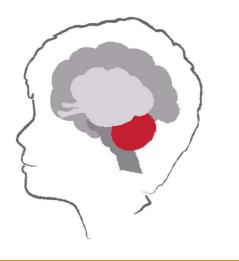


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Cerebellum- movement and balance

- Helps us to know where our body is in space
- · Helps us with our posture and balance
- Helps us not to fall over and to control our movements
- Has its own connective pathways between the
 - 2 halves- cerebellar vermis



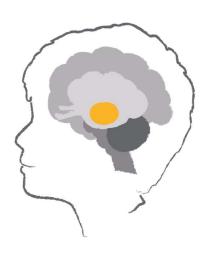


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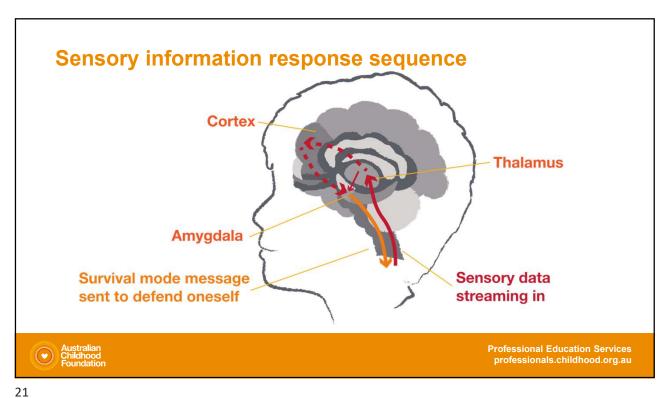
Diencephalon - sorting & sending centre

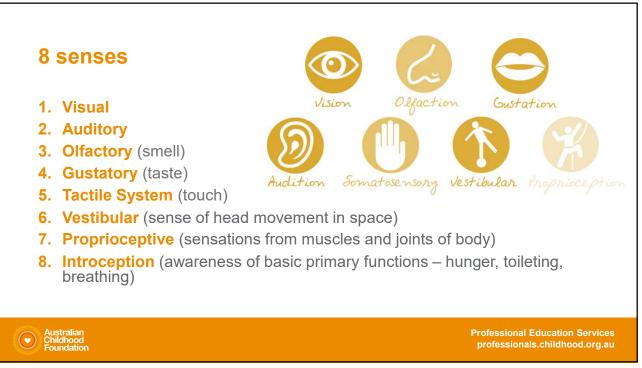
- This area of the brain develops mainly after birth
- It sorts out messages coming into the brain and sends them
- It uses hormones to send signals to body
- Hormonal signals tell your body what it needs, eg. food, water, love



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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



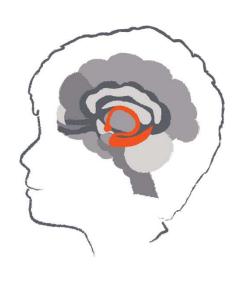


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Hippocampus – Brain's historian

- · Explicit memory system
- Develops approximately 2-3 years of age
- Provides context to memory and embeds long term memory





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Amygdala – smoke alarm

- · Detects threat
- · Develops from birth
- · Learns by association
- Involved in implicit memory processes





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Cerebral cortex- complex thinking

- The largest part of the brain
- Associated with higher brain function such as thought and action
- Examples of functions:
 - Reasoning
 - Logic
 - Judgement
 - Voluntary movement

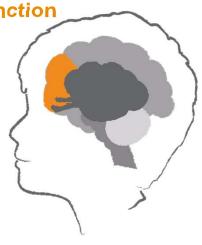




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The prefrontal cortex- executive function

- Responsible for executive functions, such as judgement, reasoning, and self awareness
- Final part of the brain to reach maturity in one's mid 20s
- Under reconstruction in adolescents from the age of approximately 12 years





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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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Hemispheric integration

Left Hemisphere

- Evaluates language content
- · Optimistic hemisphere
- Understands beginning, middle and end
- Learns from the past and expects the future
- Looks for patterns



Right Hemisphere

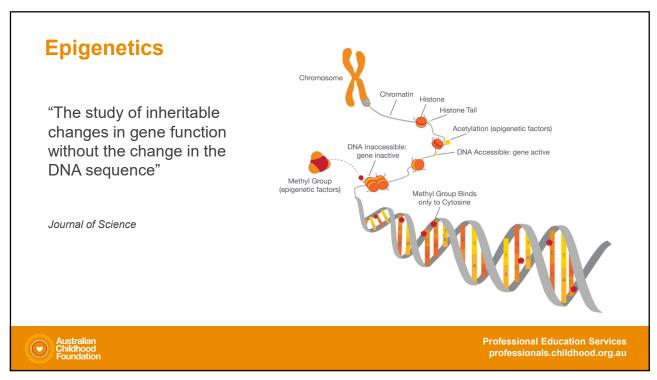
- · In the present moment
- Eye contact
- Facial expression
- · Tone of voice
- Posture
- Gesture
- Intensity
- · Is mute
- Grasps the whole



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Strategies for building healthy brain development

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

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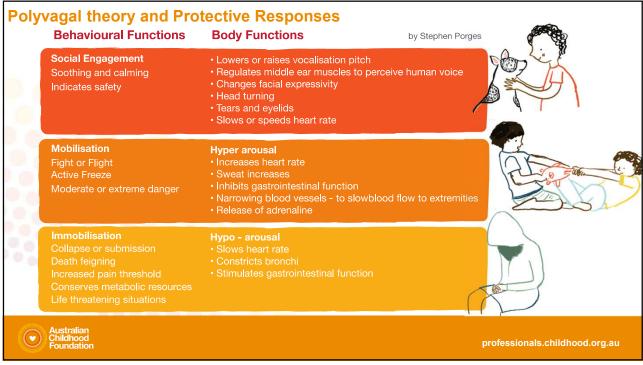
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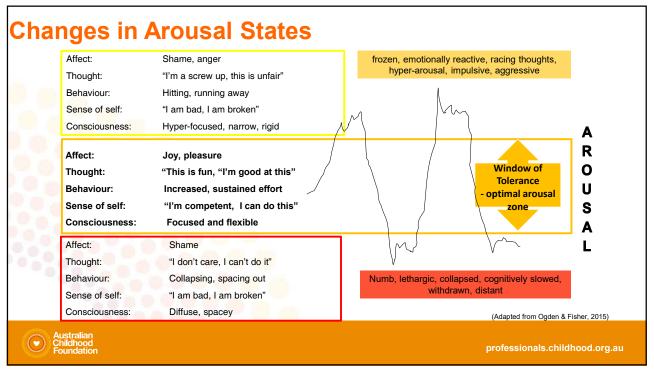
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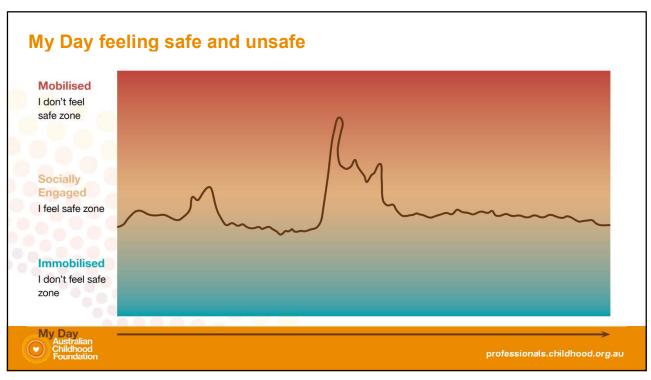
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What trauma or stress response can look like

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
- Compulsions/ repetitive behaviours
- Ruminating what if's, should, cyclic thoughts

Mobilised Responses:

- Hypervigilant
- Edgy/jumpy
- Irritable easily annoyed
- Poor recovery from distraction
- 'silly', loud, over-excitement
- Unsettled, sleep difficulties
- Outbursts, aggression
- Defensive, taking things personally
- Increased expectations of self and others
- Inflexible, 'controlling'
- Sensitive to sensory input

Immobilised Responses:

- Flat, numb affect
- Disengaged, disinterested
- Withdrawn
- "boredom"
- Lethargic, unmotivated
- Disconnected from peers
- Developmental regression

 e.g. with abilities to self-soothe, self-care/hygiene, toileting
- Changes to appetite



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Working with Protective Responses

Increase Resources – Regulatory Capabilities

Calm the brain with:

- Long outbreaths
- Mindful activities
- Orienting outwards
- Connection & Coregulation
- "Name it to tame it"

De-activate Mobilised Responses with:

- Rhythm (drumming, music, swinging, rocking, bouncing)
- Stretching/Yoga
- Carrying heavy items
- Heat pack, weighted blanket
- Reduce stimulation
- Hugging a teddy/cushion

Counter Immobilised Responses with:

- Grounding through the senses
- Proprioceptive input
- Splash face with cold water
- Something cold or sweet to drink
- Chewing candies/sucking a mint/lollipop



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How do you promote safety for the families you work with?

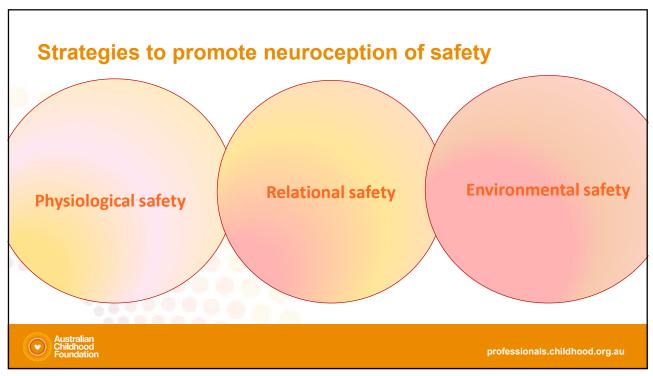
Think about:

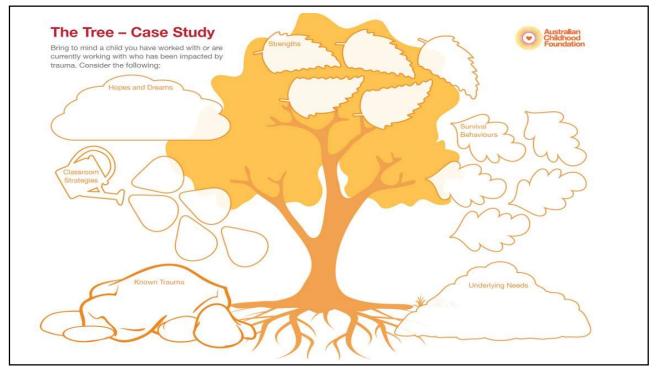
- Client's perception of safety
- Physical & emotional safety triggers
- Risk of re-traumatisation triggers
- Attunement
- Body language
- Cultural safety

- The language you use
- Environmental safety service space – warm/cold, dark/light, noise, colours etc
- The worker-client relationshiptrust, respect, transparency
- Addressing both child AND parental trauma



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Relationships as Anchors

Accompaniment is an experience for a child that offers emotional reciprocity, validation, care and comfort. In this experience they feel heard, met, felt and understood

"Children internalize the people who understand and comfort them, so that they often have the felt sense of accompaniment when they are alone"

Bonnie Badenoch

- Share meaning making experiences
- Understanding that the challenging behaviors result from their specific vulnerabilities and needs
- Focusing on and amplifying the child's strengths and talents
- Using consistent and positive reinforcement



Relationships as Anchors

The concept of "showing up" which means:

- offering a quality of presence
- bringing your whole being, attention and awareness to the Child/Young Person
- providing an experience that enables them to expect positive interactions from others and themselves
- creating neural pathways in a student that will lead to selfhood, grit, strength and resilience

Dan Siegel and Tina Payne – The Power of showing Up: How Parental Presence Shapes Who Our Kids Become and How their Brains Get Wired



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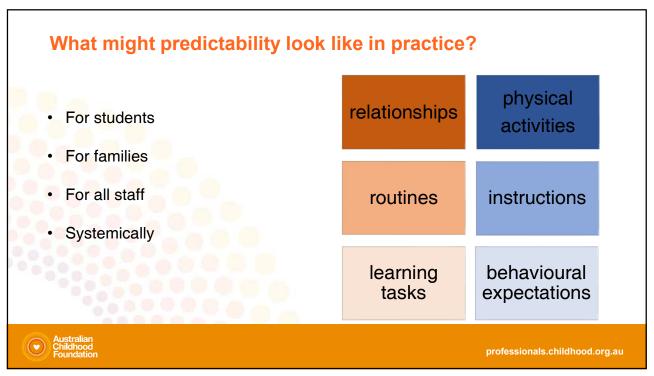
Predictable You

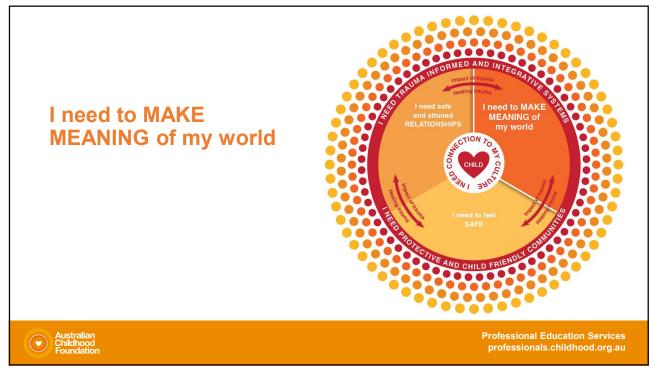
"I've come to a frightening conclusion that I am the decisive element in the classroom. It's my personal approach that creates the climate. It's my daily mood that makes the weather. As a teacher, I possess a tremendous power to make a child's life miserable or joyous. I can be a tool of torture or an instrument of inspiration. I can humiliate or heal. In all situations, it is my response that decides whether a crisis will be escalated or deescalated and a child humanized or dehumanized."

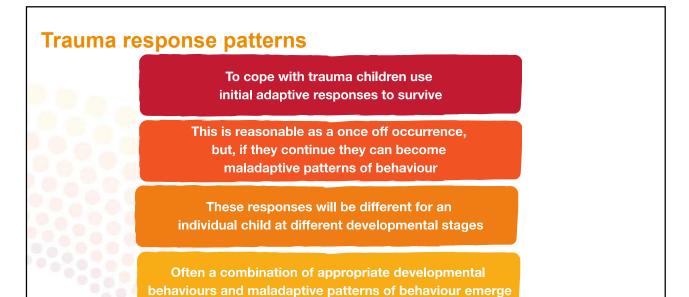
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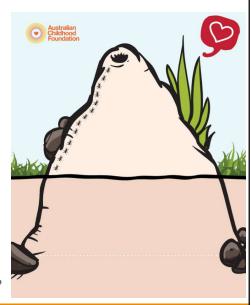






Behaviour tells a story

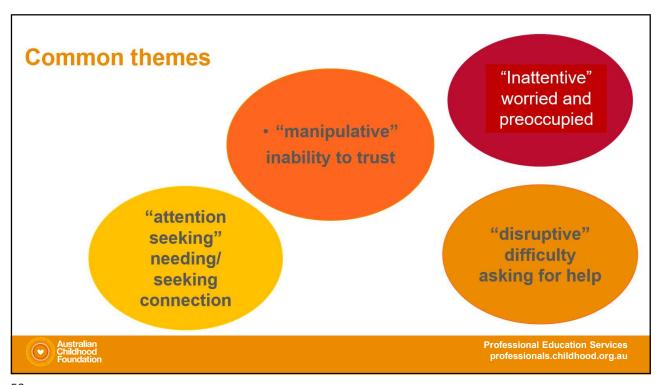
- Traumatised children's behaviour can be difficult and complex for parents, teachers and carers to understand, manage and shape
- However, it is functional and almost always makes sense given their specific experiences of trauma
- Develop openness and curiosity about behaviour
- If we can understand 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
- Some clues: is the behaviour a fight/flight/freeze/withdraw response? Is it related to hunger/tiredness? Is it a bid for connection or space?



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Meaning making

In making meaning we want the child to understand who they are despite their experiences of trauma

And for them to know they are ok, they are loved, they are accepted no matter what trauma symptoms are being expressed.



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