





Key learning outcomes

To develop an enhanced understanding of complex abuse related trauma, with a particular focus on its effects on brain functioning

To develop a clear understanding of the manifestations of abuse related trauma or the general functioning of a child or young person

To be able to assess the impacts of abuse related trauma on the child or young person

To gain a knowledge of the strategies and activities that we may use in the classroo to assist a child or young person manage the impacts of abuse related trauma

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Trauma can undermine children's ability to learn, form relationships, and function.

Schools are significant communities for children, and teachers

Teachers are significant role models in these communities and must be given the supports they need to address trauma's impact on learning.

Otherwise, many children will be unable to achieve their academic and life potential

Trauma-sensitive school environments benefit all children

Those whose trauma history is known, those whose trauma isn't known, and those impacted by their traumatized classmates.

Together, we can ensure that all children will be able to achieve at their highest levels

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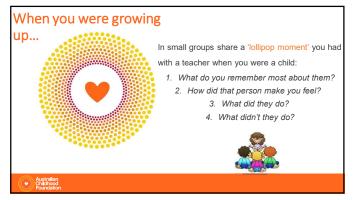
SPACE

Schools can respond effectively to the needs of traumatised children and young people, using the five key dimensions of the acronym SPACE.



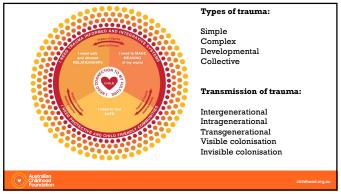
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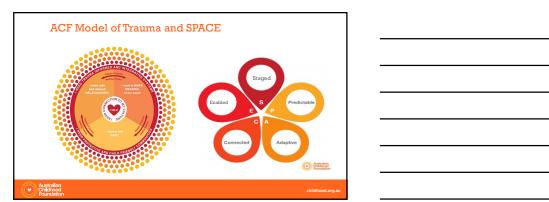




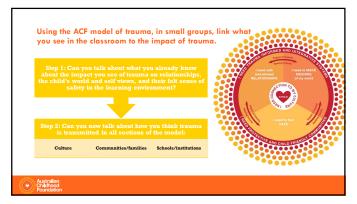












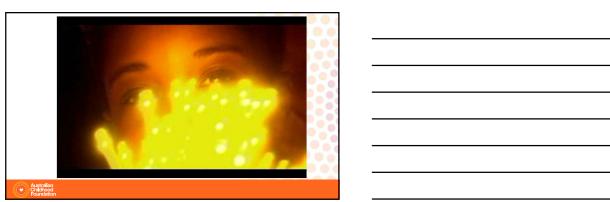
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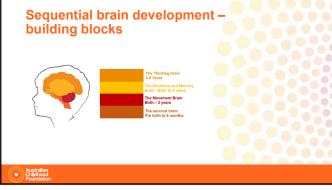




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Brainstem - basic life functions

- 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
 - JudgementVoluntary 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

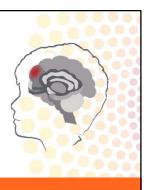


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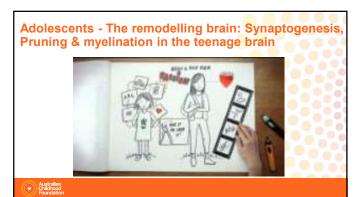
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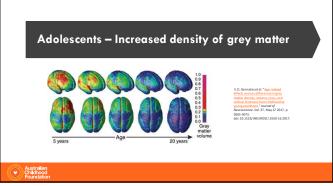
Medial prefrontal cortex

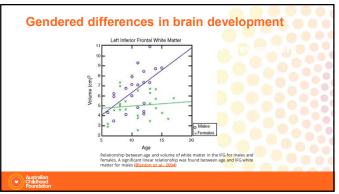
- · Associated with perceptions of self and similar others
- · Known as centre for mindfulness
- Involved in maternal bonding the parent child dyad and inter-subjectivity



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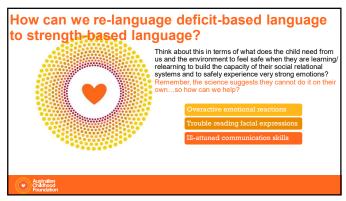




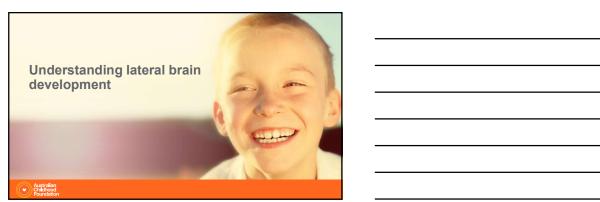


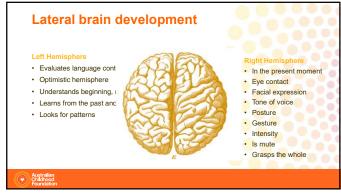


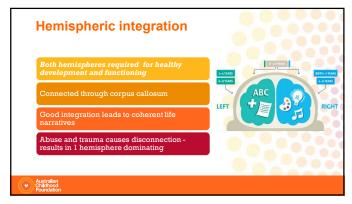




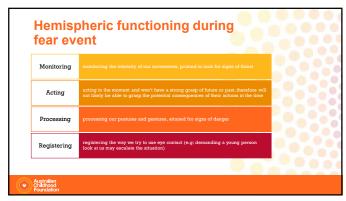










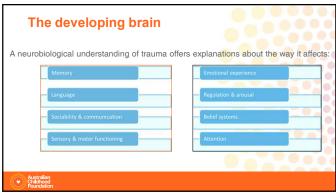




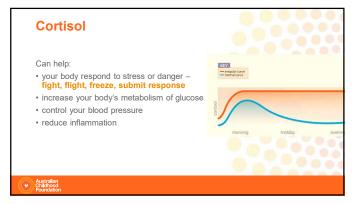




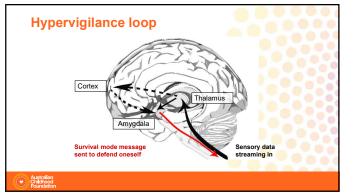






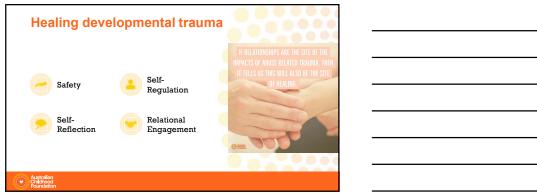


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The importance of you

- Relationships are the key way we learn to engage with the world around us
- Through meaningful connection Oxytocin is realised, a hormone that rejuvenates cell development in the brain
- The quality of relational right brain to right brain interactions in childhood influence our development in all areas of life



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Relational Alliances with children

An analysis by the Review of Educational Research of 46 studies found that when teacher-student relationships are strong, improvements are seen in

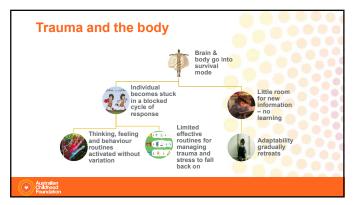


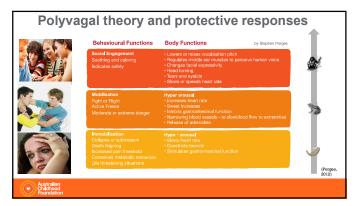
Developing and nurturing trusting relationships between students and teachers is central to building a trauma-sensitive learning environmen

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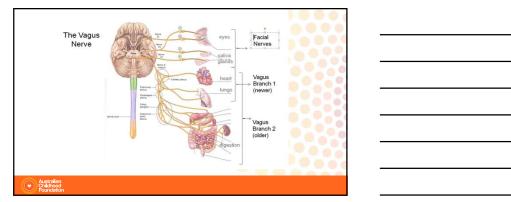
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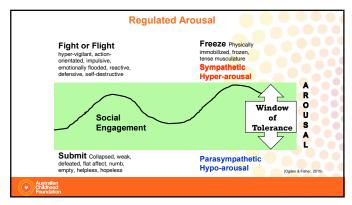


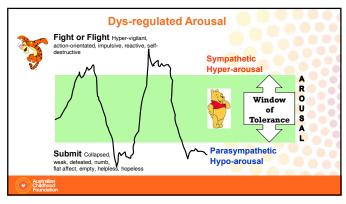


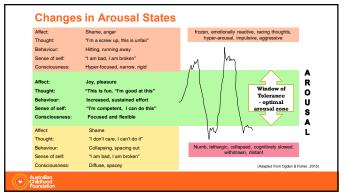


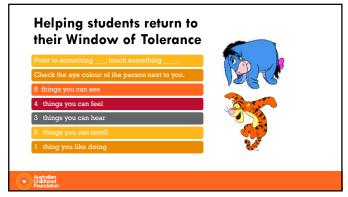
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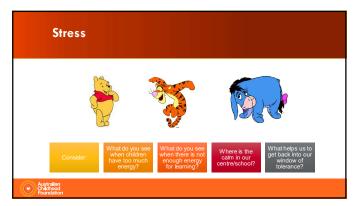




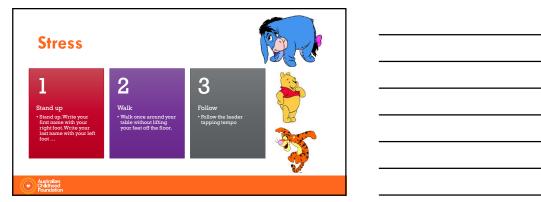








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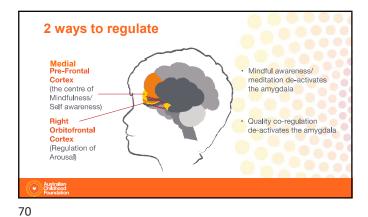






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Descending cortical structures 'The Bridge'

Dan Siegel's research suggests we can build a 'bridge' from our MPC to our Amygdala that allows us to respond instead of react, feel anger but express it safely and to feel fear but find safety.



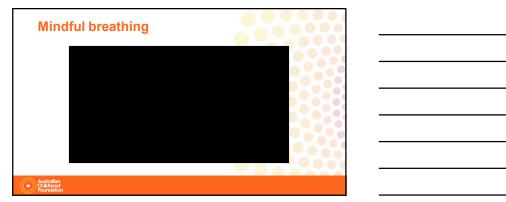
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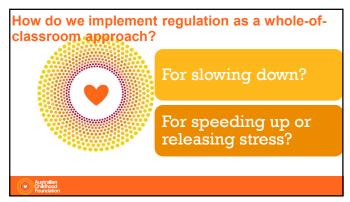


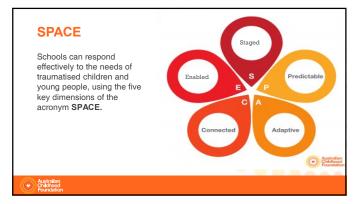




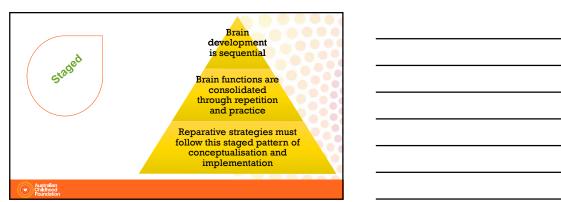
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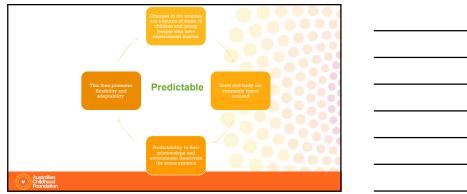
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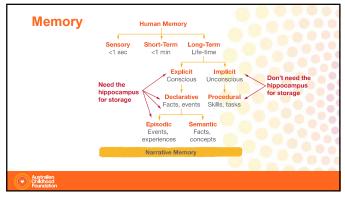


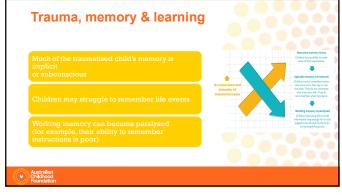




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Trauma and behaviour

"If we set out to change the behaviour, we are in danger of destroying the meaning which that behaviour holds" (Cairns, 2002)

The key to reshaping behaviour is to understand it and respond at its source rather than how it isexpressed.



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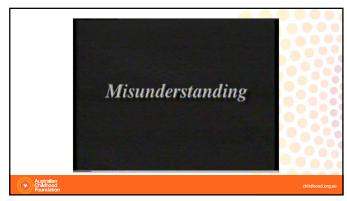












Activity- Heart felt • What I believe to be true about myself is.... • What I believe to be true about the world is.... • What I believe to be true about relationships are... The invisible Princess

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	Positive internal working model	Negative internal working model
View of self	I am lovable I am worthy	I am unlovable I am unworthy
View of the world and relationships	Others are responsive Others are loving Others are interested in me Others are available to me The world is relatively safe	Others are unavailable Others are neglectful Others are rejecting Others are unresponsive The world is unsafe



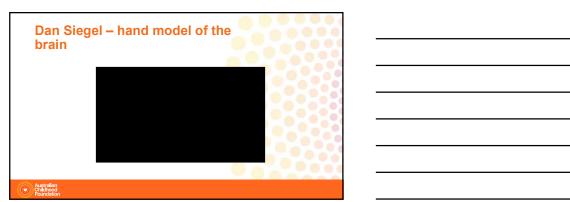


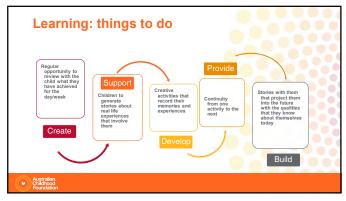


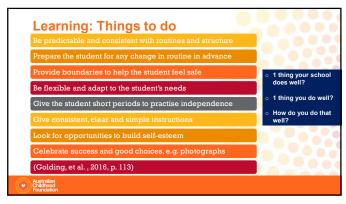


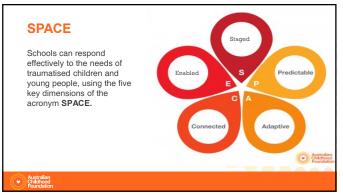


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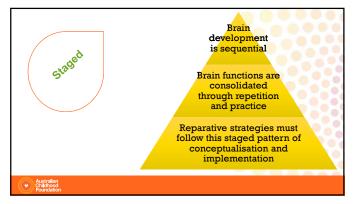




















	Things y	ou can do	
	Ве	Be predictable	
	Ве	Be consistent	
	Ве	Be connected	
	Ве	Be present	
	Promote	Promote understanding	
	Help	Help them make meaning of their experiences	
	Help	Help children develop calming tools that make sense to them and that they can use	
	Grow	Grow with them!	
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