


Making
SPACE
for Learning
 Trauma Informed Practice in Schools
 Regulation: Understanding, Observing and Responding

 **Middle swan Primary school 19 July 2021**

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The Australian Childhood Foundation acknowledges Aboriginal and Torres Strait Islander people as the traditional custodians of this land and we pay our respect to their Elders past, present and future.

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Learning Outcomes

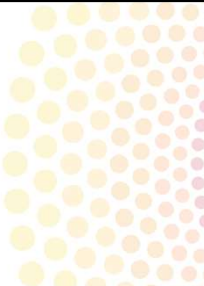
1. Understand what is meant by self-regulation, and how it is impacted by complex trauma
2. Consider self-regulation from a developmental framework
3. Explore what dysregulation may look like in the school setting, and how we might respond
4. Discover strategies to promote students' self-regulation capacity

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Session Outline

- What is self-regulation?
- The impact of complex trauma
- DOMAINS OF REGULATION
 - Assessing regulation capacity
 - Responding to regulation needs
 - Building regulation capacity



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ACF model....and the impact of Developmental Trauma



The left diagram shows the ACF model with a central heart and four quadrants: 'Loss of self-regulation', 'Loss of ability to regulate', 'Loss of ability to connect', and 'Loss of ability to learn'. The right diagram shows the impact of developmental trauma with a central heart and four quadrants: 'Loss of self-regulation', 'Loss of ability to regulate', 'Loss of ability to connect', and 'Loss of ability to learn'. Both diagrams are surrounded by a ring of dots.

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Making SPACE for Learning


Trauma Informed Practice in Schools



The diagram shows a central heart with a person icon. Surrounding it are six nodes: 'Safe Individual student', 'Predictable Classroom', 'Accepting Staff', 'Connected Whole of school', 'Enabled Community', and 'Safe Individual student'. Arrows connect the nodes in a clockwise cycle.

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Self regulation: (v): the ability to monitor and control our own behaviour, emotions, or thoughts, altering them in accordance with the demands of the situation.


J.Cook (2014)

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Regulation Domains

- Emotional
- Cognitive
- Physiological
- Relational
- Behavioural

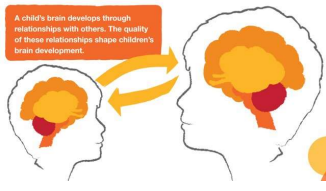


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Impact of complex trauma on the development of self-regulation

- Neurobiological impact
- Physiological Impact
- Early care-giving experiences
- Ongoing environmental influences



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Trauma and the brain

Hypothalamus
Links the nervous system to the endocrine system via the pituitary gland. It synthesizes and secretes hormones to control body temperature, hunger, thirst, fatigue, sleep, and circadian cycles.

Corpus Callosum
Bridge between the 2 hemispheres. Chronic stress can damage and thin down this bundle of neurons.

Thalamus
Sensory receptor within the diencephalon. Receives and passes on sensory data to be further processed by other areas of the brain.

Cerebellum
Balance and coordination, motor skills may be impacted by trauma.

Hippocampus
Consolidates memory by providing the context/sequential data for episodic memories. Goes offline in the face of trauma - memory is not encoded properly.

Amygdala
Survival response centre within the limbic lobe that becomes enlarged and more sensitive the more it is activated through responding to threats.

Prefrontal cortex
Responsible for executive functions, such as judgement, reasoning, and self awareness. Trauma reduces capacity for PFC to moderate automatic responses.

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Physiological Impacts - Dysregulated Arousal

Ogden, Minton, Pain 2006

Fight or Flight hyper-vigilant, action-orientated, impulsive, emotionally flooded, reactive, defensive, self-destructive

Freeze Physically immobilized, frozen, torse musculature

Submit Collapsed, weak, detached, flat affect, numb, empty, helpless, hopeless

Sympathetic Hyper-arousal

Parasympathetic Hypo-arousal

Window of Tolerance

Social Engagement

Arousal

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Early Care-giving experiences

- We learn the building blocks of self regulation through sensitive, attuned, co-regulatory experiences

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Ongoing environmental influences

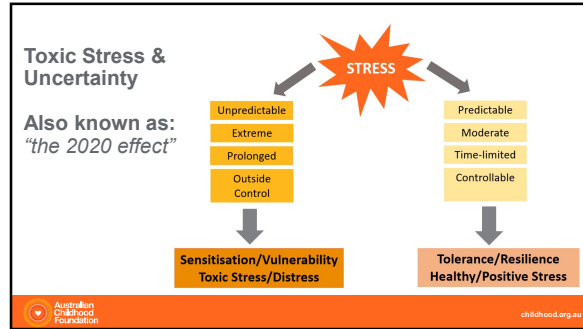
Many children continue to live in high stress environments:

- Ongoing parental substance use / mental health
- Exposure to domestic violence
- Unpredictability
- Basic needs met inconsistently
- Unstable placements
- Difficult contact visits with parents
- Separation from siblings



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Regulating Emotions

- Normal developmental expectations
- Indicators of dysregulation
- Capacity building



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Regulating Emotions

My Zones Tool Box

Blue Zone Sad Tired Sick Bored	Green Zone Happy Calm Focused	Yellow Zone Frustrated Worried Silly Excited	Red Zone Mad Angry Afraid
When I feel...	When I feel...	When I feel...	When I feel...
I can...	I can...	I can...	I can...

Normal Developmental Expectations

- What can we expect at what age?

Indicators of Dysregulation

- Age-appropriate vs problematic

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Building Capacity – Regulating Emotions

Co regulating strong emotions	Tune into cues from the child – know their triggers, reflect affect – mirroring, prosody, validate emotions, engage senses,
Enhancing positive emotions	Build opportunities for connection, provide small opportunities for fun and joyful experiences, model these, validate and name feelings – positive and negative
Promoting emotional literacy	During times of calm – when the cortex is online – teach the child about their emotions. Help them to see the patterns and triggers for them

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Emotional regulation in the classroom




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Regulating Physiology

- The role of hormones
- Sensory processing
- Indicators of Dysregulation
- Building capacity

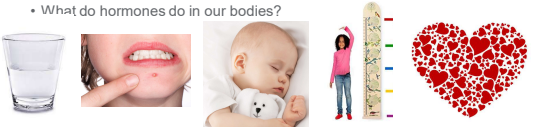


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Hormone Systems

- What do hormones do in our bodies?



- Developmental Trauma can include impact to the development and functioning of the Hypothalamus, interrupting its link to the endocrine system and how our body sends, receives and responds to hormone signals.
- These processes are also impacted by a lack of routine and daily rhythm
- Chronic stress = constant activation of HPA axis and cortisol flooding the system

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Sensory Processing

- Our brains develop pathways for how to **receive, process and respond** to sensations from our environment.
- Interruptions in any or all of these processes can cause a variety of difficulties in the school/learning environment

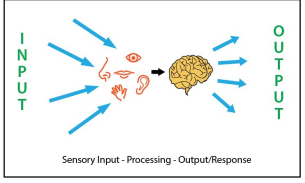


Image taken from www.childsuccesscentre.com

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Indicators of Dysregulation

- **Brainstorm and discuss:** what signs or symptoms might we see in children that would indicate dysregulation in body systems?

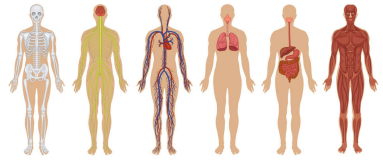


Image from: <https://www.livescience.com/37009-human-body.html>

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Building Capacity - Regulating Physiology

Implement routines	Implement consistent routines throughout the day to support hormone systems establishing rhythmic cycles
Promote awareness & response	Support students to practice <i>awareness of and response</i> to their physiological needs – thirst, hunger, stretching, etc – and don't be afraid to prompt!
Sensory experiences	Provide a range of sensory experiences throughout the day – become a keen observer and look for clues as to a child's preferred sensory modality, what seems to calm, and what seems to trigger. Facilitate conscious awareness of these sensations to help the child develop their own awareness, as this will help them develop the skills to regulate their own needs in this area.
Physical environment	Consider the physical learning and play environments – lighting, seating, pictures, smells, sounds, colours, textures, distractions, etc!

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Regulating Cognition – Attention, Awareness & Concentration

- Keeping the cortex online
- The role of the “Superior Colliculus”
- Focused attention and sensory attention
- Left and Right Brain
- Capacity Building

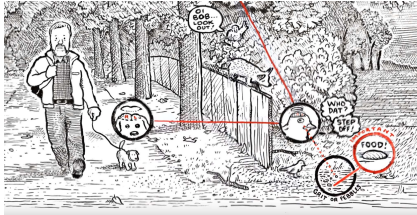


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Left and Right Brain – Focused attention & broad awareness



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Keeping the Cortex online

- Only possible if brain/body perceive safety and survival system can relax (therefore: meet safety needs as first priority).
- Encourage regular breathing exercises throughout the day – this not only calms the alarm system but also ensures enough oxygen is getting to the cortex
- Keeping our cortex online is HARD WORK! Include regular brain-breaks throughout the day and break up cortically-challenging subjects/tasks with creative/active tasks

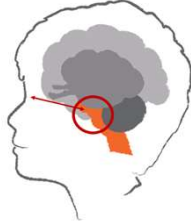



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Superior Colliculus

- Sits just below the Thalamus. Triggers a behavioural response to environmental stimuli – primarily head and eye movements in response to sights and sounds.
- How might this function get in the way of learning?
- How can we utilise this function to enhance learning?




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Capacity Building – Regulating Cognition


Promote regulation in other domains	All domains are interconnected. When you support other domains it supports cognition.
Use calm down or wake up activities	Tuning in to the child – where are they in their window? Do they require calming down or waking up?
Incorporate brain or body breaks	Regular breaks from executive functions – stretch, star jumps, drink of water, piece of fruit.
Sensory audit and support	Limit visual/auditory distractions. Provide targeted sensory support to boost attention/engagement

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Relational Regulation

- Noticing the need for connection
- Noticing the need for space
- Having appropriate strategies for getting these needs met

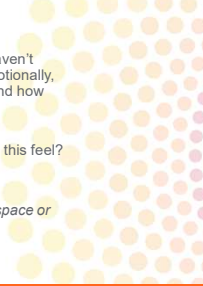


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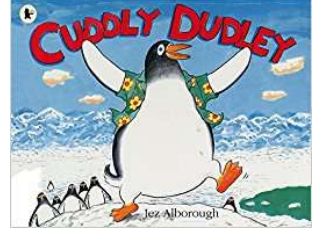
Activity

- Think of a time when you have needed "space" and haven't been able to have it. Try to remember how this felt emotionally, how it felt in your body, how it affected you mentally, and how you managed this.
- Think of a time when you needed connection. How did this feel? What did you do about it?
- *Discuss in groups* – how do we know when we need space or when we need connection?



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Regulating Behaviour

“Challenging behaviour occurs when the demands of the environment exceed a kid’s capacity to respond adaptively.”

Ross Greene



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What leads to dysregulated behaviour?

1. Dysregulation in other domains
2. Under-developed Impulse Control



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Capacity Building – Regulating Behaviour

1. Support regulation capacity in other domains
2. Support the development of Impulse Control



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Impulse Control

RED BLUE GREEN
YELLOW ORANGE PURPLE
BLACK PINK

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Assessing Regulation Capacity

Key principles:

- Developmental process
- Context specific
- Interactive systems
- Fluid – not static

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Overview of Indicators Social and Emotional Development

Birth to Kindergarten Developmental Continuum

Strand 1: Relationships with Others	Strand 2: Learning About Self (Self-Concept)	Strand 3: Emotional Regulation and Self-Regulation
<p>A1. Dependent on others to provide for needs and needs.</p> <p>A2. Seek responses, attachment and interaction with others.</p> <p>A3. Respond to the environment, exploring shared experiences with adults.</p> <p>A4. Seek comfort and help when needed.</p> <p>A5. Laugh in social games or interaction with adults in play.</p> <p>A6. Demonstrate increasing ability to form and maintain secure relationships with others.</p> <p>A7. Engage close proximity and time with others.</p> <p>A8. Develop ability to separate, play on or at a distance.</p> <p>A9. Enter and engage in group play and interactions.</p> <p>A10. Show empathy and caring for others.</p> <p>A11. Cooperate with others.</p> <p>A12. Demonstrate increased ability to resolve conflicts.</p> <p>A13. Interact easily with one or more children and adults.</p>	<p>B1. Explore own body and begin to examine body parts of others.</p> <p>B2. Gain an emerging sense of self as distinct from others.</p> <p>B3. Feel assertive and accepted.</p> <p>B4. Demonstrate an emerging sense of competence and confidence in growing abilities.</p> <p>B5. Seek to learn an expansion of motor skills, social skills, language, and play games.</p> <p>B6. Engage in play with others in play, dramatic, pretend, role, and games.</p> <p>B7. Develop increasing independence.</p> <p>B8. Engage in play with others in play, dramatic, pretend, role, and games.</p> <p>B9. Show increasing ability to distinguish between self and others.</p> <p>B10. Assist and play with toys surroundings.</p> <p>B11. Demonstrate an awareness and pleasure in relationships.</p> <p>B12. Continue to explore self as increasingly self-assertive.</p> <p>B13. Engage in tasks and accomplishments of daily, repetitive or routine about others.</p> <p>B14. Show an increased awareness of self, others, experiences, feelings, and perceptions.</p> <p>B15. Engage in play that has an impact on others.</p> <p>B16. Respond quickly from satisfaction or discomfort to tasks that are too or too simple.</p>	<p>C1. Develop increasing emotional regulation.</p> <p>C2. Develop increasing behavioral regulation.</p> <p>C3. Recognize and adapt to experiencing own feelings, appropriately and accepting needs and emotions by using words and actions for help when needed.</p> <p>C4. Demonstrate progress in expressing needs and emotions by using words and actions.</p> <p>C5. Develop ability to calm self when upset.</p> <p>C6. Recognize own behavior that are all being and control self with increasing skills.</p> <p>C7. May often to show a potential for or give a few when needed.</p> <p>C8. Demonstrate ability to calm self when upset.</p> <p>C9. Recognize own behavior that are all being and control self with increasing skills.</p> <p>C10. Demonstrate ability to calm self when upset.</p> <p>C11. Show an ability to soothe or comfort others.</p> <p>C12. Show an ability to soothe or comfort others.</p> <p>C13. Show an ability to soothe or comfort others.</p> <p>C14. Show an ability to soothe or comfort others.</p> <p>C15. Show an ability to soothe or comfort others.</p> <p>C16. Show an ability to soothe or comfort others.</p> <p>C17. Show an ability to soothe or comfort others.</p> <p>C18. Show an ability to soothe or comfort others.</p> <p>C19. Show an ability to soothe or comfort others.</p> <p>C20. Show an ability to soothe or comfort others.</p>

Virginia Developmental Milestones (2008)

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Biological domain (Brainstem, Cerebellum, Diencephalon)
 Brain and behavior
 Does the individual exhibit a reciprocal relationship with others?
 Can the individual regulate hunger and thirst?
 Can they fine-tune energy to engage in socially safe? Can they reduce social energy when difficult situations?
 Can the individual regulate anger and fear?
 Are there difficulties with fine-grained motor skills?

Emotional Domain (Limbic System)
 Does the student express a range of emotions? Are they able to make or bring pleasure?
 Can they regulate their feelings and emotions?
 When asked, do they describe an affective experience?

Cognitive Domain (Cortex)
 Does the student exhibit an attentional capacity? Can they maintain attention to tasks (under the appropriate demands)?
 Does the student exhibit attention?
 Can they articulate their attention?
 Can they understand social cues?
 Can they differentiate between (self) others, regulate, planning, and awareness?

Social and Pro-Social Domains (Limbic and Cortex)
 Does the individual exhibit a reciprocal relationship with others?
 Can they identify or describe a social relationship with others?
 Can they respond to the feelings of others, and are they sensitive to the needs of others before their own?
 "Each of these systems influences all of the others. That is, self-regulation should be viewed through the model of dynamic systems theory, according to which the effect of any level is dependent on the rest of the system, making all factors potentially interdependent and mutual by connectivity." (Stallings, 2016)

Sensory Profiling
 Does the individual exhibit a sensory profile?
 1. What are the individual's strengths?
 2. What are the individual's weaknesses?
 3. What are the individual's sensory needs?



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Self-Regulation Data Collection	Student		
	Linked Skills	With prompts (Visual Verbal)	Emerging skills (Verbal)
Basic Foundational Skills			
Ability to communicate needs and desires			
Ability to follow			
Accept and give/accept help when use of concrete tool (hammer/nail)			
Ability to regulate a substance (temperature)			
Ability to use the senses			
Ability to ask for a social request of help			
Open to sensory input or create resistance to sensory			
Engagement in sharing activities			
Engagement in play			
Ability to establish a rule			
Emergent Understanding			
Ability to give an answer			
Ability to ask a question			
Ability to ask a question for an answer			
Communicates anger, frustration or disapproval via verbal/non-verbal means			
Communicates pleasure or joy or need for assistance			
Ability to identify things of interest and things of concern			
Can identify a change and act on it			
Identifies how and behavior affects others (feeling and thoughts)			
Identifies how and behavior affects self (feeling and thoughts)			
Ability to control the use of a sensory stimulus			
Functional Confidence			
Accepts Authority from peers			
Shows verbal skills of communication			
Engage in play activities with others			
Use resources in a proper situation			
Communicate needs of others appropriately			
Identify a problem and solve it			
Identify in a social play situation			
Get attention from others and friends			
Regulate voice and body to match appropriate demands			
Identify and regulate the use of sensory stimuli			
Identify how and behavior affects others (feeling and thoughts)			
Identify how and behavior affects self (feeling and thoughts)			

Adapted from H. Hanzick, L. Peterson and L. Boger, *Moving Toward Functional Social Competence* (2007)

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ZONES OF REGULATION PRE-QUESTIONNAIRE Date: _____ Identifier: _____

	1	2	3	4	5
Expresses basic emotions (happy, mad, sad)					
Expresses more nuanced emotions (frustrated, disappointed)					
Expresses complex emotions (embarrassed, anxious, jealous)					
Notifies when feeling uncomfortable emotions and asks for effective strategies or seeks productive help (goes to get a drink, asks for help on a difficult question, seeks clarification, gets assistance before small problems turn big, utilizes social supports, etc.)					
Student reacts appropriately to the emotions of others					
Student demonstrates an understanding that their behaviour affects the way that others think and feel about them					
Student demonstrates the ability to change their state (energy level) to match the context (e.g., can come in from recess and sit down in a responsible/quiet) manner					
Student demonstrates or expresses an understanding of the things that bother them and the things that support them (e.g., knows that they can't sit first row in every class, unless given choice to support their learning)					
Student takes action to support their own learning and participation					
Student is able to effectively participate in classroom activities 80% of the time					
Student demonstrates an adjustment/transition from effective participation in group activities					
Student demonstrates self-awareness of their current state (e.g., accepts or acknowledges when they are being silly, distracted, experiencing difficulty or frustration, anxious or frazzled, etc.)					
Student demonstrates emotional regulation in that they regulate/modify their reaction in response to the incident					
Student thinks before acting and prepares for success					
Student displays appropriate classroom behaviour 80% of the time					

1. Does not demonstrate this skill
 2. Does this infrequently or rarely
 3. Does this just OK or sometimes
 4. Demonstrate this skill most of the time
 5. Very capable and does this often

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Linking Assessment with Intervention

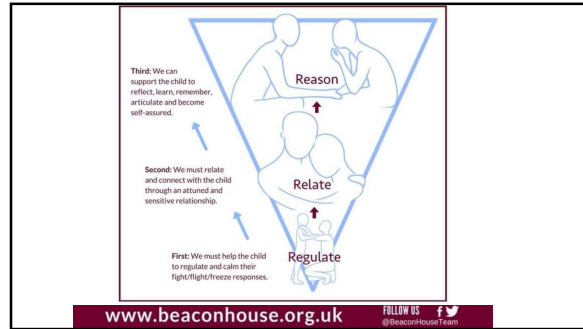
“Your explanation guides your intervention (your philosophy guides your practice)”

Dr. Ross Greene



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Overview of Strategies to Build Capacity

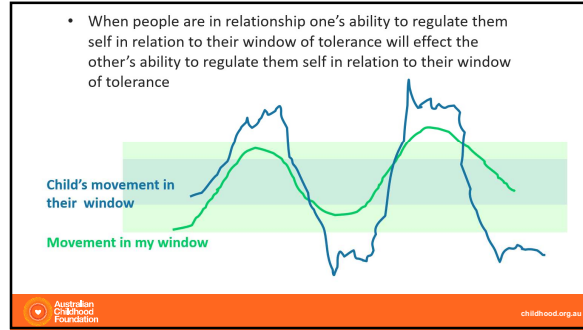
<p>EMOTIONAL Build emotional literacy during moments of calm Validate and CO-REGULATE strong emotions</p> <p>PHYSIOLOGICAL Increase awareness of bodily sensations/reactions Support identifying & meeting physical needs Provide a variety of purposeful sensory activities Provide a range of micro-environments</p> <p>BEHAVIOURAL Assess and meet needs across other 4 domains Develop impulse control</p>	<p>COGNITIVE Use running themes to link content across subjects Limit unnecessary distractions (visual and noise audit)</p> <p>RELATIONAL Tune into cues re tolerable levels of interaction Support facilitated social interactions with peers</p> <p><i>Children need permission, opportunities, resources and support to practice their regulation skills</i></p>
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Successful outcomes for children are achieved when they...

Engage in opportunities to experience, tolerate, express, regulate and integrate their feelings and experiences




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Recommended Reading/Viewing

Flora, I. (2011). Developing young children's self-regulation through everyday experiences. *Young Children*. pp 48-51.



Fried, L. (2011). Teaching teachers about emotion regulation in the classroom. *Australian Journal of Teacher Education*, 36 (3).

Ponitz, C. et al. (2009). A structured observation of behavioral self-regulation and its contribution to kindergarten outcomes. *Developmental Psychology*, vol 45 (3), 605-619.

Shanker, S., & Barker, T (2016). Self-Reg. Yellowkite Books: London

<https://self-reg.ca/>

<http://www.livesinthebalance.org/educators-schools>

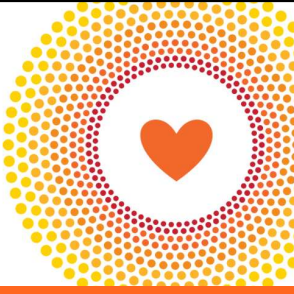




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Thank you for spending time with us today!

Facilitator:

Contact us
support@childhood.org.au
1300 381 351

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