

Embedding a Sensory Approach in SEN Schools: It's Not Just a Fidget Toy

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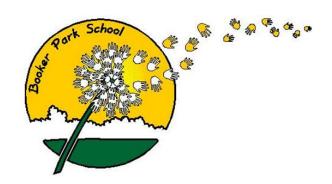
BSc (Hons) Occupational Therapy

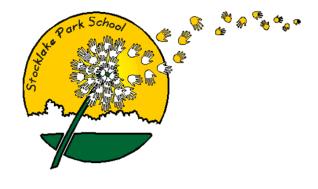
Paediatric Occupational Therapists

Back Ground Information













Occupational Therapy Service at Booker Park School ©

Play and leisure





Regulation/attention and emotional well-being

- Zones of Regulation
- · Sensory regulation provision
- Ayres Sensory Integration® therapy
- · Swing Room sessions/ programmes
- · Interoception awareness programmes
- Assistance with Yoga programmes

- Creativity
- Messy Play
- · Wheelchair skills
- Smart moves programme
- · Fun with Food
- Hand function

Sensory Processing

- Zones of Regulation
- Interoception awareness programmes
- Sequential Oral Sensory (SOS)® Feeding/Fun with Food
- Ayres Sensory Integration®/motor programmes
- Swing Room programmes
- Tactile / messy play/ hand groups
- Therapeutic Listening/ Quick Shifts
- Visual attention and perception activities

Self-care

Sensory strategy advice/ sensory diet

Access to learning

- · Fine motor skills
- · Handwriting/typing skills
- Mark making
- · Visual perception
- Seating
- Zones of Regulation

- Dressing groups/programmes
- Eating and drinking independence skills: self-feeding programmes, equipment provision/recommendation, oral motor skills, liaison with SALT
- Food preparation
- Toileting

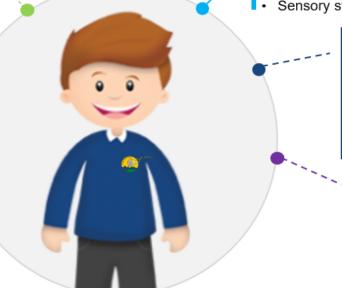
Relationships and **Social Interaction**

- · Staff and parent training
- SCERTS
- Attendance at Annual Reviews
- Internal Multi-Disciplinary Team (MDT)
- Supporting families
- · OT students placements
- Clinical supervision
- · Liaison with external agencies: orthotics clinic, NRS, community OT, reps, housing, charity funding
- CPD at PACE
- SEN clinical excellence network

Posture, movement and body awareness

- · Body awareness/ Interoception groups
- · Mat Man/ Body Scheme
- · Sensory motor programmes
- · Visual perception
- · Wheelchair skills/ clinic
- · SMILE powered platform drive
- · Seating and postural management
- · Upper limb advice/stretch programmes
- · Lycra assessment/ advice
- · Assistance with Yoga programmes

The Occupational Therapy Department, The Pace Centre ©



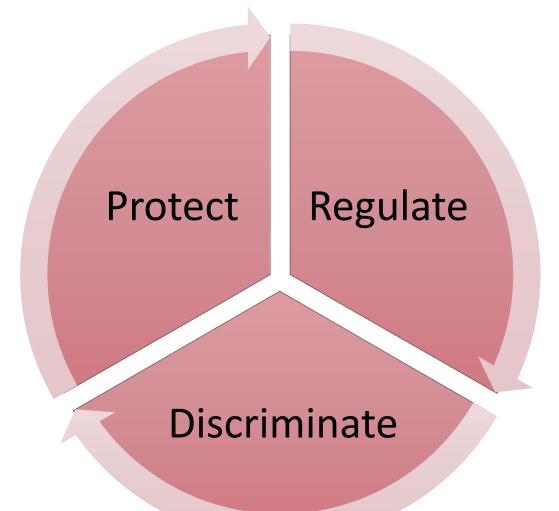
Objectives



- Guiding Principles
- Illustrate Examples
- Process & tips for success

What sensation does for us?





Hardy, L. & Hills, E. (2021) Sensory Babies Course

The 8 Sensory Systems

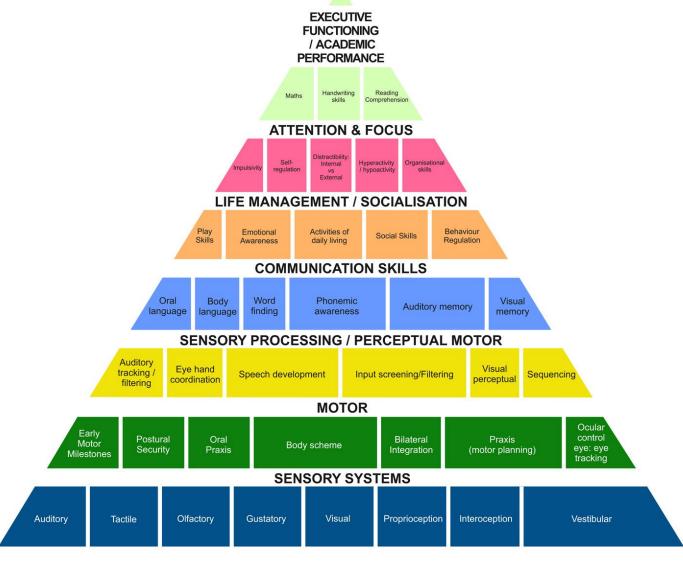


The Sensory Systems

Tactile	Touch response to shape, size, texture and temperature	Gustatory	Taste (salty, spicy, bitter, sweet and sour)
Auditory	Hearing in terms of loudness, direction, interpretation	Vestibular	Position and movement in relation to gravity
Visual	Seeing in terms of brightness, shapes, interpretation	Proprioception	Joint and muscle sensation (pressure and force)
Olfactory	Smells (pleasant, unpleasant, dangerous)	Interoception	Sensation originating in the body; the physiological 'feelings' of the body parts (pain, temp, itch, hunger, thirst, stomach ache)

The Senses as a Foundation





www.maximumpotential.org.uk (2020)

Sensory Modulation



Our nervous systems' ability to register and integrate sensory input and then conduct an appropriate response. = Self-Regulation

The **under-responsive** child does not seem to notice inputs from one or more sensory systems and may be very passive

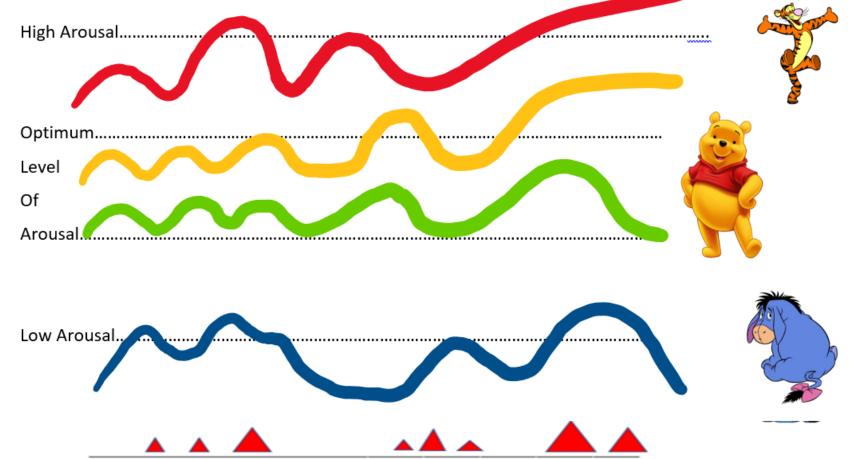
The **sensory seeking** child craves excessive stimulation from one or more sensory systems

The sensory avoiding child is **over-responsive** to sensations from one or more sensory systems, this can show as passivity or aggression/force so as to avoid.



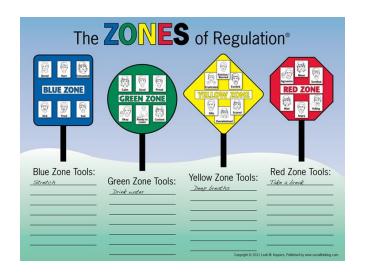
Level of arousal





Sensory Events Over Time

Zones of Regulation (Kuypers, L. 2011)



The framework provides strategies to teach students to become more aware of and independent in controlling their emotions and impulses, manage their sensory needs, and improve their ability to problem solve conflicts.







SCERTS® (Prizant, B.M., et al. 2007)

Pace

Mutual Regulation

I will use language strategies to request a regulating activity. (MR3.6)

When my partners:

- Are responsive to my emotions and arousal level.
- Support me with visuals and the Zones of Regulation programme.
- Direct me to choose an activity/item from a selection of visuals when I'm showing signs of dysregulation.
 - Direct me to use my talker/visual communication board to say what is upsetting me.



Social Communication, Emotional Regulation, Transactional Supports

Self-Regulation

I will use behavioural strategies modelled by partner to regulate my arousal level (SR 2.2).

When my partners:

- Help me to explore a range of sensory strategies & equipment
- Use consistent language and visuals to help me understand my arousal level
- Show me visuals to support options available.

Our Integrated Approach



- Equipment e.g. weighted backpacks, ear defenders
- Classroom space e.g. cosy corner, low stimulation environment
- Seating e.g Zuma, ball chair, anti-gravity chair
- Sensory circuits
- Sensory diets
- Swing room
- Sensory exploration groups e.g. Zones of Regulation
- Sensory strategies e.g. tactile, massage, oral motor, etc.
- Yoga

Specialist Sensory Equipment





Choice Board

Light, Medium, Heavy Weighted Backpacks





Chewy

Sensory Toolbox



The Classroom Environment









Sensory Seating











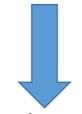


Sensory Circuits

1. Alerting



2. Organizing



3. Calming









Individual Sensory Tools









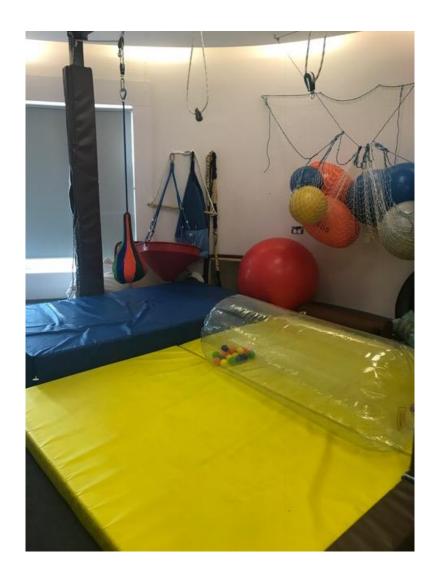






Specialist Swing Room





Sensory Assessment

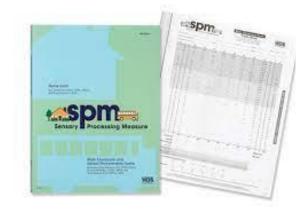




Interoceptive Awareness Questionnaire

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	Child's Name:	Class:	Date:	Form completed by:	
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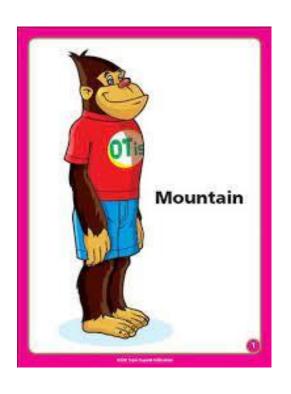


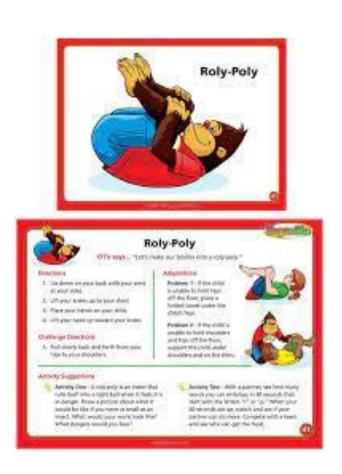


Oral Motor Input						
Date:	Like/Dislike	Calmed or Alerted	Other Comments/Help needed to complete			
Finger to nose breathing						
Di Codilling						
Deep belly breathing						
Blowing bubbles						
Blowing feather						
Blowing pom-pom ball						
Blowing air through straw						
Blowing feather or pom-pom ball with straw						
Figure of eight breathing						
Six sides of breathing						
Lip Whistles						

Any other comments:

Yoga









Training



- ½ day training as part of all staff induction with regular refreshers
- Separate Zones of Regulation training
- SCERTS training
- Targeted training specific to a child's sensory needs
- Offer Pace 2 day training for staff working with complex children
- Parent training days on Zones/ sensory strategies etc.

Tips for Success



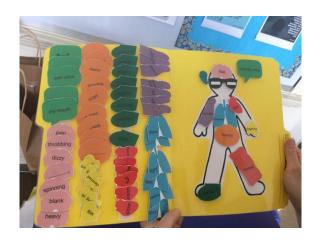
- Education is key!
- A whole school approach
- Having the OT team based within the school
- Regular monitoring and review from the OT team
- Rolling education on site for staff
- Open communication with staff, parents & wider community

Service Progression



- SOS Feeding
- Interoception
- New and emerging equipment
- Transferring the model of practice to other schools in the local area





Thank You



- Thank you to the staff and management of The Vale Federation
 & The Pace Centre
- Any questions?

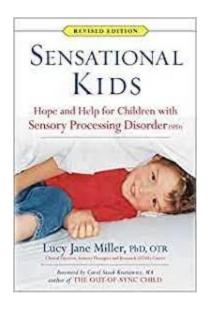
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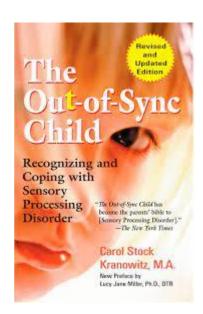
References

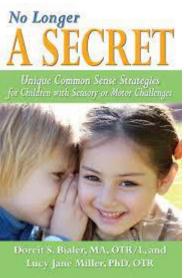


- Kuypers, L. M. (2011). The Zones of Regulation: A Curriculum Designed to Foster Self-Regulation and Emotional Control. Santa Clara, CA: Think Social Publishing, Incorporated
- Mahler, K. J. (2019). The Interoception Curriculum: A Step-By-Step Framework for Developing Mindful Self-Regulation. Kelly Mahler
- Maximum Potential. (2020). The Developmental Pyramid. https://maximumpotential.org.uk/the-developmental-pyramid/
- Prizant, B., Wetherby, A., Rubin, E., Laurent, A., & Rydell, P. (2006). *The SCERTS Model: A Comprehensive Educational Approach for Children with Autism Spectrum Disorders.* Baltimore, MD: Paul H. Brookes Publishing
- SOS Approach to Feeding. (2021). SOS Approach to Feeding. https://sosapproachtofeeding.com/sos-approach/

Useful Books/ Bibliography









Activities for

Processing

Disorder

Kids with Sensory

Carol Stock Kranowitz, M.A. Foreword by Trirde Timmprist, Ph.D. D.T.R./L.



