CHILDHOOD NEURODIVERSITY

UNDERSTANDING AND SUPPORTING SENSORY NEEDS

Psychology in Schools Team

NSFT

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What presentation are you interested in today?





How would you rate your current understanding of sensory processing?





How would you rate your current confidence supporting your child with their sensory needs?

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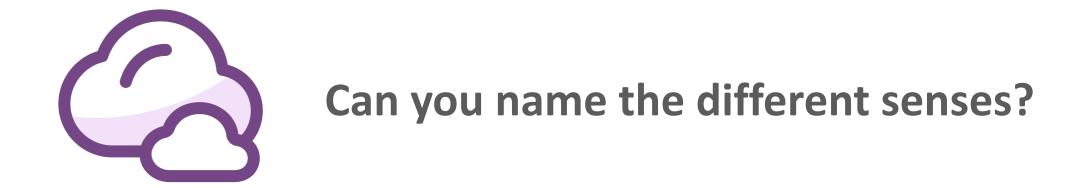
NSFT

Workshop Overview

- The sensory systems
- Sensory differences
- The 'just right' state
- Strategies for sensory needs
- Resources and further support







Sensory Processing

Sensation detected by sensory receptors Sensory information processed by the nervous system and brain



Response

This is happening constantly!

The 8 Sensory Systems



Visual system \odot

- Gives us information about:
 - Light
 - Details of objects around us e.g. size, shape, colour
 - Position of things around us
 - Movement of things around us
 - Depth perception (e.g. seeing how big a drop is off a step)
 - Learning through viewing text and pictures



Auditory (sound) system



• Gives us information about:

- Volume
- Tone
- Pitch
- Direction of sound (i.e. where it's coming from)
- Speed of the sound (e.g. speed of approaching footsteps)



Tactile (touch) system

• Gives us information about:

- Two different purposes: to keep us safe and to understand the world we are in
 - Protective branch helps us sense danger – feeling of pain and extremes of temperature
 - Discriminative branch helps us make sense of how something feels e.g. smoothness, temperature, dryness, pressure



Gustatory (taste) U & Olfactory (smell) systems

- Gives us information about:
 - Eating and drinking
 - Sensing danger e.g. tasting spoiled or rotten food, smelling gas or fire
 - Influencing our regulation e.g. lavender is known to be a calming scent, citrus is typically alerting



Vestibular (balance) system

- Gives us information about:
 - The speed at which we are moving
 - The direction in which we are moving
 - The position of our head
 - When to produce 'righting' actions to help keep our balance
 - Influencing regulation e.g. rocking is typically calming, jumping and spinning is typically alerting



Proprioception (body position & force) system

• Gives us information about:

- Pressure/ force e.g. how hard we push, pull, or hold something
- The position of our body parts
- This sense is often used in many regulating and grounding sensory activities



Interoception (inside the body) system



• Gives us information about:

- Internal sensations e.g. hunger, thirst, needing the toilet
- Body sensations that link to emotions e.g. 'butterflies in the tummy' when excited or nervous, tight chest when anxious, feeling hot with anger







What behaviours or difficulties do you notice in your child which might be related to sensory processing?

Visual system

• Things you might notice:

- Bright light may cause discomfort
- May choose to wear sunglasses or hats to shield their eyes
- Difficulty finding items
- Difficulty matching items together
- Overwhelmed by brightly coloured or visually 'busy' environments
- May miss visual information or cues



Auditory (sound) system

• Things you might notice:

- Covering their ears
- Avoiding or escaping loud environments
- Unable to ignore/filter out background sounds
- Unable to focus on spoken information
- Making lots of noise
- Difficulty in 'tuning in' to what's happening (e.g. packing up time)



Tactile (touch) system

- Things you might notice:
 - Dislike or seeking:
 - being touched e.g. hugs, being bumped
 - the feel of certain objects or clothing
 - messy play
 - certain food textures
 - Difficulty with self-care tasks e.g. brushing teeth, washing
 - Very sensitive to pain or doesn't notice pain



Gustatory (taste) J & Olfactory (smell) systems

- Things you might notice:
 - Discomfort or distress when certain smells present
 - Noticing smells no one else notices
 - Food refusal or avoidance
 - Seeking strong or bland tastes
 - Seeking certain smells
 - Difficulty distinguishing tastes or smells



Vestibular (balance) system

- Things you might notice:
 - Fear/discomfort during movement e.g. travel while in a vehicle, fast rides
 - Fear of feet not being on the floor
 - Poor balance
 - Fear or dislike of sports or physical activities
 - Seeking movement e.g. jumping, spinning, running



Proprioception (body position & force) system

- Things you might notice:
 - Accidentally bumping into things
 - Spilling or dropping things
 - Tripping over often
 - Rough play
 - Accidentally breaking things by using too much force
 - Holding a pen/pencil either too loose or tight
- Tactile and proprioception systems work closely together e.g. difficulties getting dressed



Interoception (inside the body) system



• Things you might notice:

- Not recognising feeling hungry, thirsty or full
- Not recognising when it's time to use the toilet
- Difficulty developing emotional awareness e.g. hard to make sense of what emotion they are feeling from body sensation cues





Give Me Space! My teachers gave me toys to hold Every time I cried I would walk out of the classroom And toss the toys aside. So they gave me sand tray time And a classroom of my own I had an adult with me But I felt so alone. So they gave me a session With the school therapy dog But all the movements, touch and smells Just filled my brain with fog. They didn't know what they should do Nothing seemed to work All the nice things they were giving me Were just making me feel worse.

So they gave me a headset And my best friend sat with me She didn't say any words She just sat and let me be. And when the break was over I felt ready to return I could focus on my work Because I felt ready to learn. So even in kindness don't assume Because everyone is different Everyone has special skills We're all unique and brilliant. So when you see a look That you don't know on my face I'm not being rude or moody I just need you to give me space.





Sensory Differences Can Be Misunderstood

- Sensory differences can have an impact on behaviour
- At times, behaviour may be misunderstood
- Refusal to take part can be based on sensory differences



Sensory responsivity

Over-responsivity

- Distracted, distressed, uncomfortable
- Fight-or-flight mode fearful, avoidant, agitated, fleeing
- 'Zoned out' or withdrawn

Under-responsivity

- Unaware of sensations or surroundings
- Slow to respond
- Needs more of a sensation to understand it
- Seeking sensations more than others e.g. jumping, spinning, using excessive force



The 'just right' state of regulation	
High Arousal	 'Hyper', distracted, excitable, distressed, uncomfortable Can be in fight/flight mode - fearful, avoidant, agitated, fleeing At more extreme levels of arousal, may freeze or 'shutdown'
'Just Right' State	 Able to make sense of themselves and their surroundings Able to process and tolerate sensory information Able to focus, engage in activities and learn Feeling in control, calm and regulated
Low Arousal	 Unaware of sensations or surroundings Slow to respond Bored, sleepy, low in energy

How to support your child with their sensory needs

- Regulation
 - Environment adaptations
 - Regulation strategies

- Strategies for sensory sensitivity
- Praxis and coordination



Childhood Neurodivergence: Managing Parental/Carer Stress





Are there any other strategies/tools your child finds helpful to support their sensory needs?

Environmental Adaptations

- Create an environment that suits the unique sensory needs of your child/children
- Decrease clutter, harsh lighting, unpleasant/annoying noises
- Low-distraction zones to focus (across the senses) e.g. homework
- 'Quiet calm space'
- Access to regulating sensory supports e.g. sensory 'fidgets' and tools
- Predictable environments and expectations



Universal Strategies To Support Regulation



- Heavy work and muscle contraction (using proprioception) (e.g. pushing, pulling, weight bearing, helping to move items, climbing)
- Movement breaks
- Outdoor play
- Yoga/mindfulness
- Slow, controlled, rhythmical rocking or swinging
- Access to a quiet, low stimulation space
- Squeezing a self-hug, pushing hands together, or squeezing a toy

Sensory System	Calming (for over-sensitivity)	Alerting (for under-sensitivity)
Visual	Turning off or dimming bright lights - natural light is preferrable. Wearing sunglasses or a hat. Reduce visual distractions.	Access to bright objects e.g. light up toys, spinning toys. Movement e.g. toys that produce a lot of movement like a jack in the box
Auditory	Quiet time or spaces. Wearing ear defenders, headphones. Reduce auditory distraction.	Listening to or making fast paced, energetic music, changes in tempo, and unpredictable sounds.

Sensory System	Calming (for over-sensitivity)	Alerting (for under-sensitivity)
Tactile	Deep pressure touch e.g. massage, sitting in a ball pool or large bean bag	Light touch, tickles, playing with items that have a variety of textures e.g. feather across the skin.
Vestibular	Slow, rhythmic rocking back and forth or side to side	Multi-directional, fast movement e.g. spinning, running, jumping

Sensory System	Calming (for over-sensitivity)	Alerting (for under-sensitivity)
Proprioceptive	'Heavy work' e.g. pushing, pulling, weight bearing, helping to move items, climbing	Clapping, stamping
Gustatory and Olfactory (taste and smell)	Calming smells e.g. lavender. Chewy foods, 'chewelry', sucking e.g. drinking through a straw	Alerting smells e.g. citrus or mint. Spicy or sour foods, ice cold food/drink, crunchy foods

Strategies For Challenging Activities

 Tooth brushing – Use calming strategies before, to start the task in a regulated state, use a timer to agree a clear end point, try flavourless foamless toothpaste (Oranurse), try a silicone toothbrush or a silicone finger-tip brush.

 Loud and busy environments – Research quieter times of day, some shops and attractions have quiet days or quiet hours. Arrive early to allow the noise levels to gradually increase. Explore sound dampening options such as ear defenders or in-ear supports. Use calming strategies before, during and after expose to loud and busy environments, to support regulation.





Praxis And Co-ordination



- Praxis, co-ordination and the integration of sensation develop through experience
- Providing lots of opportunities for children to move their bodies in novel ways and challenge their senses in a safe, play-based environment, will offer ongoing opportunities to continually develop these skills.
- Activities such as obstacle courses and 'animal walks' are therapy favourites.
- Participating in movement-based activities will also help with regulation

This is a kind of squishy toy that fits my palm perfectly.

Embrace Self-Soothing Behaviours

Stimming e.g., hand flapping, pacing, making noises

Why may some Neurodivergent children/young people stim?

- for enjoyment
- an attempt to gain sensory input, eg rocking may be a way to stimulate the balance (vestibular) system; hand-flapping may provide visual stimulation
- an attempt to reduce sensory input, eg focusing on one particular sound may reduce the impact of a loud, distressing environment; this may particularly be seen in social situations
- to deal with stress and anxiety and to block out uncertainty.



Be mindful of whether the behaviour is safe –

Ask yourself is this safe? Is it causing danger? Is it causing disruption in a setting that is difficult to manage?

Communicating Sensory Differences to Schools

Advocating for other environments to embrace sensory differences and to support any reasonable adjustments Support for sensory differences in education settings is 'needs-led' not 'diagnosis-led'

- - Suffolk Mainstream Inclusion Framework:
- <u>SMIF Sep 24</u>
- - SENDIASS:
- <u>SEN support in schools for pupils with sensory</u> processing needs – YouTube
- Childhood neurodiversity: supporting your child's education

Watch here: <u>Childhood Neurodiversity: Supporting</u> <u>Your Child's Education</u>



Suffolk Mainstream Inclusion Framework

A best practice guide for education settings



'Break down big challenges in small achievable steps and celebrate every small gain'

Particin

'We took a while to find the things that helped our child the most but by being willing to try we have had some successes... it is important to keep trying'

Suffolk Family Carers

'Every child is different. You've just got to find what works.' 'Embrace who your child is. Let them be them.'

Holding hope

Living with Autism can be confused and at times scary but for me what gave hope was sharing my story, although this took me a long time to do, it has meant that I can just be me and do what I need to do to make sense of the world - particip8!

PACT

'Ask for support. Do not try to do things alone.'

'you are not alone'

Further resources

- <u>Sensory differences online learning</u> by Cambridgeshire Community Services Occupational Therapy Team
- <u>Making Sense of Sensory Behaviour A</u> practical approach at home for parents
- SI Education information and training for professionals and parents <u>https://www.sensoryintegrationeducation.</u> <u>com/</u>
- Harkla All Things Sensory podcast https://harkla.co/blogs/podcast
- <u>SEN support in schools for pupils with</u> <u>sensory processing needs – YouTube</u>
- https://www.facebook.com/share/19oFv6SUeH/?mib extid=wwXlfr

Resources

Books

- Raising a Sensory Smart Child The definitive handbook for helping your child with sensory processing issues. Lindsey Biel and Nancy Peske
- The Out of Synch Child Carol Kranowitz
- Too Loud, Too Bright, Too Fast, Too Tight : What to do if you are Sensory Defensive in an Overstimulating World – Sharon Heller

Childhood neurodiversity workshop programme

FUTURE WORKSHOPS

Childhood Neurodiversity: Supporting Planning, Ordering and Remembering - Tuesday 29th April at 13:00pm

Childhood Neurodiversity: Supporting Your Child with Low Mood - Wednesday 21st May at 13:00pm

<u>Neurodiversity online parent/carer workshops - Suffolk SEND</u> Local Offer



Previous Recordings in this Series

Childhood neurodiversity what you need to know as a parent/carer

Watch here: <u>Childhood Neurodiversity: What</u> You Need to Know as a Parent/Carer

Childhood neurodiversity: supporting social relationships

Watch here: <u>Childhood Neurodiversity:</u> <u>Supporting Social Relationships</u>

Childhood neurodiversity: supporting your child's education

Watch here: <u>Childhood Neurodiversity:</u> <u>Supporting Your Child's Education</u> Childhood neurodiversity: supporting your child with anxiety Watch here: <u>Childhood Neurodiversity:</u> Supporting your child with anxiety

Childhood Neurodiversity: Supporting Sleep Difficulties Watch here: <u>Childhood neurodiversity</u>: Understanding and supporting sleep difficulties

<u>workshop</u>

Childhood Neurodiversity: Parental Carer Stress Watch here: <u>Childhood Neurodivergence:</u> <u>Managing Parental/Carer Stress</u>

Recovery College



Recovery College

Open to all those interested in mental health recovery in Norfolk and Suffolk, the Recovery College provides free educational courses to equip you with the skills and strategies to move on with your recovery and/or to support others. Recovery College | Norfolk and Suffolk NHS

Discovery college

The Discovery College offers free educational online courses and webinars on mental health topics for 16 - 25 year olds. The courses and webinars are designed so that 16 - 25 year olds can become an expert in discovering themselves and their self care alongside others their age.

Discovery College | Norfolk and Suffolk NHS



Other free workshops

Psychology in Schools Team

Upcoming live parent workshops on mental health:

- Supporting our young people with anxiety
- Supporting your child to regulate their emotions
- Supporting young people with self-harm
- Supporting our children to manage their big feelings (ages 0 11)
- Supporting our young people with low mood

Recorded previous workshops on NSFT YouTube:

Stress and resilience, school avoidance, tics and Tourette's, eating difficulties, sleep, trauma, OCD and more!
 www.nsft.uk/workshops Eventbrite page for live booking https://www.nsft.nhs.uk/parent-workshops All recorded workshops



Key resources if you are worried about your young person

- Young Minds parent helpline 0808 802 5544 (9am -4.30pm M-F) and webchat service: <u>https://www.youngminds.org.uk/parent/parents-helpline-and-webchat/</u>
- 111, option 2 crisis support
- Papyrus Prevention of Young Suicide

Papyrus UK Suicide Prevention | Prevention of Young Suicide (papyrus-uk.org)

• Psychology in Schools Parent

Workshop: Understanding Self Harm in Children/Adolescents

Understanding Self-Harm in Children/Adolescents (youtube.com)

<u>MIND urgent help</u>



Mental health crisis support 24/7 for people of all ages in Norfolk and Suffolk





How would you rate your understanding of sensory processing?





How would you rate your confidence supporting your child with their sensory needs?





I found today's workshop helpful





Two key things I will take away from this workshop are...



Please download and install the Slido app on all computers you use





One thing to improve this workshop is...

Childhood Neurodiversity: Supporting Sensory Needs Feedback Survey (LIVE)



https://forms.office.com/e/NMShngcrxJ