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29th January - 2nd February



Sensory Circuits Iain Mills YST Lead Inclusion School Norfolk





SENSORY CIRCUITS 3:30-4:30pm





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• Please mute yourself until the end and use the chat facility for questions

 Prepare to get active - doing is by far the best way to learn!

Includes links to the 'All About Autism, All About Me' online training resource





Think







Learning outcomes

- 1. Understand the potential needs of individuals with autism (ASC) and those who potentially have ASC.
- 2. Understand the basic theory of Sensory Circuits
- 3. Understand how to implement Sensory Circuits
- 4. Links to further training





- 120,000 school aged children diagnosed with ASC
- 1 in 100 children have ASC in the UK
- 73% are in mainstream schools



- 60% teachers feel they haven't adequate training to teach children with ASC
- 1% prevalence rate in UK which is 600,000 adults have diagnosable symptoms of autism but do not have a diagnosis.





An Introduction to Autism

The All About Autism, All About Me resources use the term **ASC (Autism Spectrum Condition)** to refer to students who have a diagnosis of autism, as well as those who present with Social Communication Difficulties but may not have a formal diagnosis of ASC.

It is important to recognise that autism is a spectrum and therefore children and young people on that spectrum present with a wide variety of needs and abilities.

Individuals first!



Within the spectrum of autism, children and young people with ASC may display difficulties across these four areas of need.

- Language and communication
- Social Interaction
- Flexibility of thought
- Sensory processing

SENSORY PROCESSING



Have you...

adapted the environment to minimise sensory stressors?

assessed the child's sensory profile for activities they avoid or seek?

used sensory activities as interventions to impact on behaviour and emotions?

used sensory resources to aid concentration and attention?

The three senses which have the most impact on the central nervous system (and therefore affect output and behaviour) are:



- touch
- vestibular
 proprioception

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Sensory Circuit







Why Sensory Circuits?





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• EHCP targets

- Proactive behaviour management
- Supports academic learning
- Supports posture for learning
- Links with Sensory Diets and Zones of Regulation

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Proprioceptive

- The proprioceptors located in muscles, connective tissue and joints and helps the brain regulate arousal.
- Limb Position
- Body position in space
- Contraction and stretch of muscles
- Force and effort required within an activity

Effects can last up to two hours.

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Examples of proprioceptive activities:

- Climbing
- Crawling
- Jumping or skipping
- Carrying
- Gardening
- Zumba
- Football
- Fitness suite
- Trampolining

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Bouncing on a trampette

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Vestibular

The vestibular sense is located in the inner ear.

- Position of head in relation to Gravity
- Motion/Rest
- How fast and direction of movement

It can be stimulated with linear movements (backwards and forwards), which are relaxing, and by rotary movements (spinning), which are arousing.

The effects of these can last up to four hours.





Touch / Tactile

The sense of touch is located in the skin and mouth.

- Texture
- Temperature
- Shape
- Weight
- React appropriately to pain
- It can be stimulated with deep pressure (which is relaxing) or light touch (which is arousing).

Effects can also last up to two hours.

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Examples of tactile/deep pressure activities:

- Weighted rucksack*
- Weighted jacket*
- Weighted blanket*
- Blow up jacket
- Ankle weights
- Tight lycra vests
- Therabands
- Theraputty

ALERTING SECTION

Within the **alerting section**, repetitive activities from the vestibular and proprioceptive sections above should be used to stimulate within a controlled setting. Examples include bouncing on a trampoline or skipping.

ORGANISING SECTION

In the **organising section**, activities which involve some kind of sequencing should be selected - for example, walking along a balance beam or throwing bean bags into a bucket.

CALM SECTION

The final section should help to **calm** the student to prepare them for moving to another activity. Activities from the tactile/ deep pressure list can be used to input.





Organise









Sensory Circuit Example

Balance Beam

Equipment: Bench

Emerging Slide / crawl along the bench 	
 Developing Walk along wide side of the bench Balance on the bench Walking sideways/backwards 	
 Secure Walk along the narrow edge of the bench Walk backwards/sideways Balance on the bench 1 leg 	

Rolling Ball

Equipment: Gym Ball and maybe Gym Mat

Emerging

- Adult supports when on the ball
- Supports weight on arms

Developing

- Moves independently
- Increased repetitions
 Walks hands forward
- and backward

Secure

 Collect a bean bag and throw it at a target when fully extended



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Sensory Circuit Example in School











Sensory Circuit Key Equipment

Wobble Road Wobble Board Spinning Seat (Gonge Carousel)



Trampette

Peanut Ball Scooter Boards

Slam Balls

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Sensory Circuit Example at home or in the classroom



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Sensory Circuit Example at home or in the classroom

Proprioception: Alerting 1. Step Ups 2. Star Jumps	Proprioception: Alerting
 Figure of 8 run both directions Vestibular: Organising Step on cushions 	2. Star Jump arms 3. Move a sock right to left, left to right and/or behind body
 Spin 10 times each way Transfer socks from R- L/L-R using 1 hand Factile: Calming Egg Roll Squeeze hands together for 10 seconds Plank 	Vestibular: Organising 4. Balance an object on a pan 5. Side Twists 6. Transfer socks with 1 hand Tactile: Calming 7. Shoulder Press 8. Squeeze hands together for 10 seconds 9. Cross Hold







- Choose 3 exercises from each section: ALERTING / ORGANISING / CALMING
- Perform each exercise for 1 minute
- You can change 1 exercise each week
- All pupils can therefore be doing Sensory circuits at the same time but be doing different exercises
- There are different levels of difficulty to help you guide the pupils

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Sensory Circuit for _____

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Alerting Stage	Punch to the sky			
Choose 3				
exercises		-		
∭-→≣ Organising				
Stage				
Choose 3 exercises				
Calming Stage				
Choose 3 exercises				
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Sensory Circuit Example with 1 piece of equipment - Gym Ball

Alerting Stage:

- 1. Sitting and bouncing on the ball
- 2. Hop, jump or run around it

Organising Stage:

- Rolling over the top walking hands forwards and backwards whilst your legs are supported by the ball
 - Move objects right and left using 1 hand
- 4. Bouncing the ball on the floor
- 5. Upside Down careful with this one
- 6. Rolling the ball at a target or another person
- 7. Sitting on top of the ball and balancing
 - Can you take your feet off the ground?

Calming:

8. Deep Pressure - Rolling the ball over the top of your back whilst lying down

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- 9. Wall Squats with the ball going against the wall
- 10. Lay on your back and press the ball up (like a bench press)
- 11. Push the ball around and up a wall use a line so they follow the tail



- Sit on the ball and bounce up and down whilst throwing and catching a ball
- This can be done with a partner who throws the ball or one their own by throwing the ball up and catching it, possibly alternating hands
- Bounce whilst copying action





Sensory break within a classroom



Pupils to have their own box (Sensory Snack Box).

This includes activities that they feel they can use to help calm then down or alert them (as needed) This links in with the Zones of Regulation that we use at The Parkside School as well as EHCP's







Sensory Snack Ideas to use within a classroom

Alerting

• This will probably be done as a whole class or pupils taken out to do things by a TA. Otherwise it can become quite disruptive within the classroom.

Organising

- Dexterity tasks: tweezers etc
- Drawing
- Colouring book
- Peg Boards
- Lego
- Textured playdo
- Threading beads, buttons
- Pipe Cleaners twist around pencils, make
- shapes/animals, Push through buttons, colander
- Stretching rubber bands stretch over a cylinder (bottle) or over a peg board







Sensory Snack Ideas to use within a classroom

Calming

- Weighted Blanket
- Gloop / bubble timers
- Touch Board
- Touch Massage Self hand massage or massage tool
- Foam Roller
- Deep Breathing Finger breathing/Figure of 8
- Slime
- Playdo
- Chew Toy



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Sensory Snack Ideas to use away from the classroom

Ideas for this can be taken from the Sensory Circuit ideas shown earlier

Alerting

- Hurdle Jumps
- Trampoline jumping
- Going for a run
- Playing 'IT'
- Playing football



Calming

- Climbing equipment
- Crab walk
- Crawling
- Deep pressure massage with a peanut ball
- Wrap up in a mat



- Hop Scotch
- Throw and catch
- Throwing or kicking at a target







FINE MOTOR BOX IDEA

Why not have a box filled with fine motor practice? Children could each have their own box with activities they have to do daily as part of lessons, or there could be a big box for the whole class.

Sample fine motor box:

- 1 x recycled shoe box/ ice cream box/ large zip lock bag
- 1 x plastic tub with lid (cut a slit) filled with bottle tops/coins
- 5 x pegs

Color Matching

- 1 x small box of marbles/ beads/ dry pasta
- 1 x button activity fabric strip
- 1 x jar or pegboard
- 1 x set of elastic bands
- 1 x small ball of play dough



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Sensory Box

Sensory Circuit Support





Next Steps

- Autism Training and resources: <u>https://www.youthsporttrust.org/all-about-autism-all-about-me</u>
- Go to <u>www.topsportsability.co.uk</u> to register and sign in to access loads of inclusive resources:

Registration access code: Please contact your local YST Lead Inclusion School for the code











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