Sensory Processing and Regulation

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Montessori Credentials:
Early Childhood, MACTE
Elementary I, AMS

Sensory Processing and Regulation

Or......What makes him do that?

The information in this presentation is taken primarily from these books:

The Out-of-Sync Child

By: Carol Stock Kranowitz

"How Does Your Engine Run?"

By: Mary Sue Williams and Sherry Shellenberger

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Have you noticed those children who never seem to be able to "fit" in the classroom?	
Those who need extra time or warnings	
before they can make a change in	
activity?	
Those who need extra mentoring in order to	
successfully get works done?	-
Those who just don't "get it" no matter how	
many times you explain what you expect?	
THOSE are the children we will be	
talking about!	
	1
We all have a sensory system composed of several parts.	
Somewhere in your early schooling you learned	
about :	
Vision	
Hearing	
Taste	
	-
Smell	
Touch	
You also have several more systems	
that are vitally important to your	
well being:	
Vestibular	
Proprioception	
Gravitational	
Bowel and bladder sense	

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All of the input from these sensory systems are processed together (at the same time) in your brain on an unconscious level. This allows your brain to filter out what you do not need to pay attention to, such as the clothes on your body or the clock ticking on the wall. Your brain is only interested in sensory information that is unique or different. About 95% of all sensory information is discarded. This screening process allows you to pay attention selectively to what you choose and unconsciously monitor for survival at the same	
time.	
The number one priority for	
your nervous system is survival. Always!	
Motor planning:	
1. Is the ability to have an idea of a new activity you would like to do with your	
body, 2. Make a mental plan of how to carry it out,	
3. Then do it.	
Difficulties can occur at any point in the process!	

Sensory defensiveness

Sensory defensiveness is needed for survival.

It is the nervous system's ability to react appropriately to external threats.

The child with difficulty in this area will react negatively and disproportionately to "ordinary" sensory stimuli.

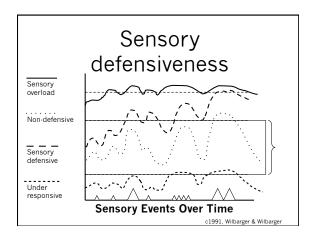
This reaction is unconscious.

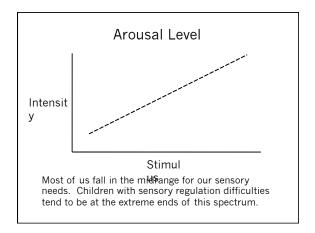
Sensory defensiveness has three stages:

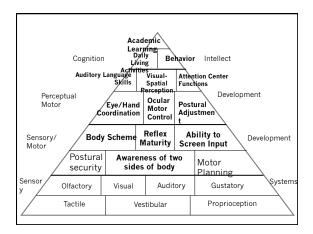
- 1. Flight needing to make unnecessary trips to the bathroom, escape type behavior.
- 2. <u>Fright</u> physical responses such as red ear rims, sweaty palms, pallor, "big eyes".
- 3. <u>Fight</u> physical aggression, feels very threatened!

This is not a social issue!

It is an unconscious response of the nervous system to a threat.



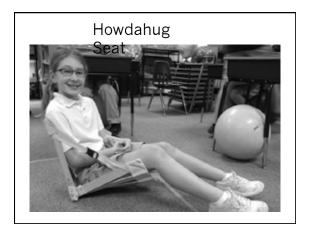


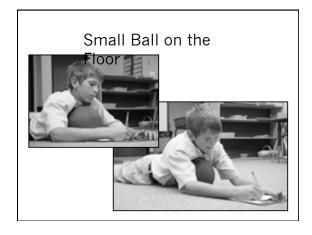


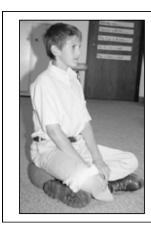












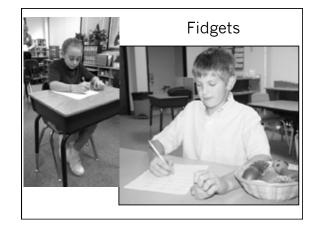
Small ball used on the line.

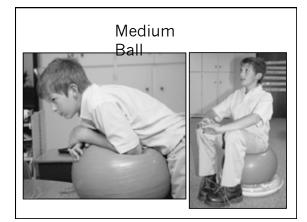
Cloth tube used for tactile pressur

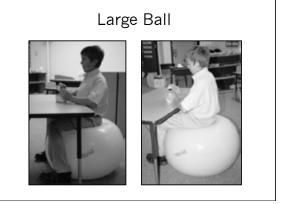


Pushing a heavy box.









Jsing a crampoline n the hall	
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An example of a sensory regulation

Details of the shelf for sensory regul







Details of fidgets basket



Where to	get som	ne of thes	se things
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Howdahug Seat: http://www.howda.com/howdahugs-for-child

<u>Balls</u>: These are exercise balls. They can be found in the spor goods department of Wal-Mart, Target and online.

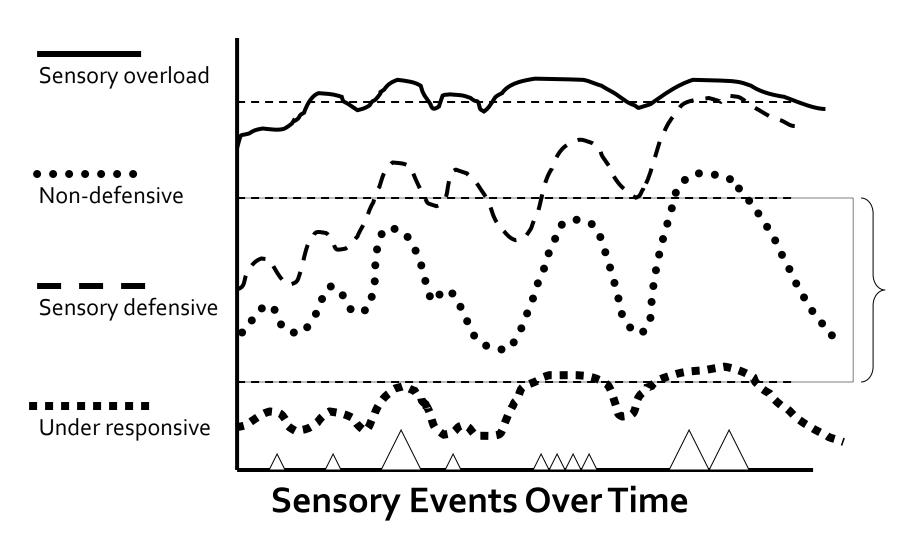
Fidgets: Look at better toy stores like http://learningexpress-t or http://www.pdppro.com/product.htm Also, any place you shop look around with a new personal control of the product of the

Summer and Christmas time are the best times to find

Wedges and seat cushions: http://www.stepforward123.com/

<u>Fabric tube</u>: This is T-shirt fabric. Look at some of the bigger of Joann's. Mine is five yards of fabric which I double

Sensory defensiveness



c1991, Wilbarger & Wilbarger

Academic Learning

	Cognition	Daily Li Activ		Bel	navior	Intellect	
	Auditory	Language Skills		-Spatial eption	Atten Functi	tion Center ons	
Perce	eptual Motor	Eye/Han Coordinatio	d Mo	ular otor ntrol	Postu Adjus	Development oral otment	
Sensory/Motor Body Scheme Refl Matu			· '	y to Screen Dev Input	elopment		
	Postural security		Awareness of two sides of body		ides	Motor Planning	
Sensory	Olfactory	Visual		Audito	ory	Gustatory	Systems
	Tactile	Vestibular			Proprioception		

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