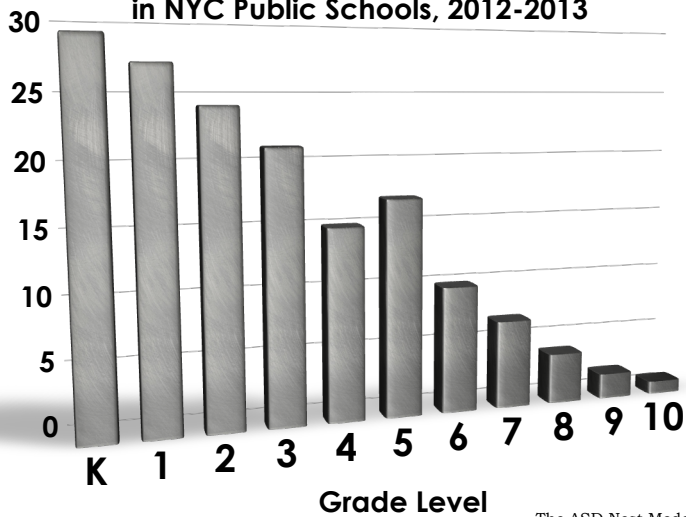


THE BASICS

- Begun in 2003 in PS 32 in Brooklyn, NY
- In 2012-13, serves close to 650 higher functioning children with autism and more than 2,000 children in general education
- 157 inclusive Nest classrooms from Kindergarten through 10th grade
- 27 schools in every borough of New York City

The ASD Nest Model

Number of Nest Classes per Grade
in NYC Public Schools, 2012-2013



The ASD Nest Model

OUR GOAL

- To create a *therapeutic educational model* that is:
 - both inclusive and challenging
 - a vehicle for therapeutic change
 - based on evidenced-based and promising practices
 - responsive to the unique combination of strengths and deficits these students possess
 - able to be implemented by diverse schools and districts

The ASD Nest Model

A PROGRAM WITH *BOUNCE*

• **Nest classroom (cont.):**

- Clear expectations of what classrooms should look like and the strategies to be used
- Pull-outs & disruptions kept to a minimum
- Home/school connection:
 - phase-in strategy with home and school visits
 - a home/school communication notebook
 - monthly parent meetings / workshops led by a social worker or guidance counselor
 - collaborative planning



The ASD Nest Model

A PROGRAM WITH *BOUNCE*

• **Nest staff:**

- Skilled, smart, teachers who are eager to learn
- Highly skilled, collaborative therapists (speech pathologists, occupational therapists and social workers)
- All teachers and therapists receive graduate level training on autism, behavior, Nest strategies and social development
- Principals receive training and on-site support during the planning year and the first three years of the program



The ASD Nest Model

A PROGRAM WITH *BOUNCE*

• **Nest staff (cont.):**

- Weekly 90-minute team meetings are mandated for all staff; each student's progress is assessed and specific strategies are agreed upon
- Therapists and teachers work as a collaborative, interdisciplinary team
- All teachers and therapists receive a variety of professional development activities



The ASD Nest Model

A PROGRAM WITH *BOUNCE*

• **Nest school:**

- Host schools are typical neighborhood schools with flexible, collaborative principals, instructionally sound practices and a positive approach to behavior
- Principals are experienced at running their school and are good instructional leaders
- School has space to accommodate the need for one additional classroom per year



The ASD Nest Model

A PROGRAM WITH *BOUNCE*

• **Nest district:**

- Understanding and commitment from all levels of the school district, especially the top
- Adequate, timely funding: *The ASD Nest Program costs the same or less than other public or private programs for children with autism*
- Collaboration with university-based autism experts for training, professional development and on-site support for teachers and therapists
- Student evaluation process identifies and places only appropriate children in the program



The ASD Nest Model

THE ASD NEST CLASSROOM

Shirley Cohen, Professor Emeritus
Hunter College, City University of New York

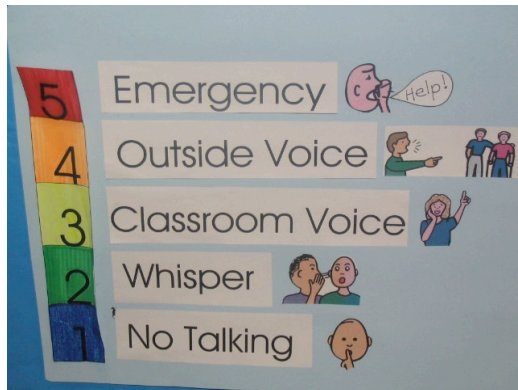
VISUAL AIDS

The ASD Nest program uses lots of visual aids
Why?

Because many students with ASD are better at visual processing than auditory processing, and because visual aids can be very valuable in helping students who have organizational issues, which are common in students with ASD.








The ASD Nest Model








THE INCREDIBLE 5-POINT SCALE



The ASD Nest Model

MORNING SCHEDULE

Morning Schedule	
	Circle time
	Music
	Snack
	Numbers
	Story time
	Toilet
	Lunch

Morning Schedule	
	Circle time
	Music
	Snack
	Surprise
	Story time
	Toilet
	Lunch

The ASD Nest Model

INSTRUCTIONAL SUPPORTS

- Use co-teaching models that support differentiated instruction
- Probe to ensure that a student understands the steps required in a task before being expected to complete it independently
- Simplify tasks by shortening them or breaking them into parts
- Create checklists for student use in completing complex academic tasks

The ASD Nest Model

SOCIAL SUPPORTS

- Experience sharing
- Social problem solving
- Use of Social Stories™
- Role play

The ASD Nest Model

TEACHING REPLACEMENT BEHAVIOR

- Help cards
- The “break” program

I NEED A
BREAK!

HELP!

The ASD Nest Model

POSITIVE REINFORCEMENT SYSTEMS

- “Catch them being good”
- Class-wide “point” (or check mark, or sticker, or smiley face or ticket or cotton ball) system
- Individual (positive) behavior charts



The ASD Nest Model

THE ASD NEST THREE-TIER SYSTEM

WHAT IS IT?

- A structure for use of the Classroom Guideposts with a focus on issues in four (overlapping) areas: sensory, academic, behavioral, and social

The ASD Nest Model

TIER I

Strategies for use in all ASD Nest classrooms

Examples

- Behavioral: Tell students what *to do* rather than what *not to do*
- Social: Lead whole class/small groups in role-playing new/difficult situations
- Academic: Task analyze complex academic activities to clarify component steps and sequences

The ASD Nest Model

MOVEMENT TO TIER II

- Requires completion of Tier I Checklist and team meeting to plan more effective use of Tier I strategies
- Is followed up in two to three weeks to evaluate progress
- Student is moved to Tier II if the team concludes that additional, individualized planned interventions are needed

The ASD Nest Model

TIER II

Individualized, planned interventions

Examples

- Sensory/motor: Use individual sensory tools as recommended by OT, e.g., pencil grips, slant boards, weighted vests
- Behavioral: Use individualized behavior reinforcement system
- Academic: Provide one-to-one and small group previewing for new/challenging content
- Social: Create Social Story™ books written for and with individual student

The ASD Nest Model

MOVEMENT TO TIER III

- Requires Completion of Academic Screening Form if Tier III is needed for academic supports
- Requires implementation of a functional behavior assessment (FBA), including parent interview, if Tier III is need for behavioral supports

The ASD Nest Model

TIER III

Examples

- Academic: Modify content, work expectations, and instructional pacing, and provide 1:1 support during lessons and activities/tasks
- Behavioral: Provide frequently scheduled teacher-supported break times throughout the day, and implement a more intensive reinforcement system with frequent teacher monitoring

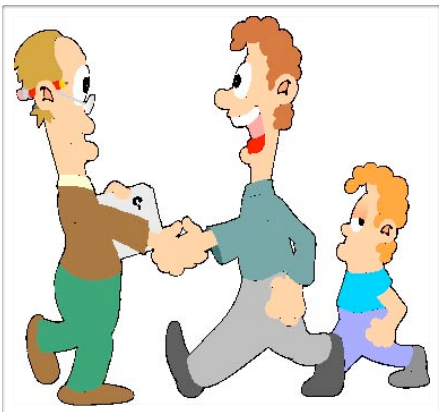
The ASD Nest Model

ENSURING FIDELITY OF IMPLEMENTATION

The Tier I Classroom Checklist of Strategies and Supports

The ASD Nest Model

RELATING TO FAMILIES



The ASD Nest Model

AND DON'T FORGET ABOUT HAVING FUN



The ASD Nest Model

SOCIAL DEVELOPMENT INTERVENTION

Susan Brennan, CCC SLP
Primary Developer of SDI

SOCIAL DEVELOPMENT INTERVENTION



SDI is a social therapeutic intervention implemented in tandem with academics. It is based on the developmental language model, relationship-development and social cognitive theories, and is used to cultivate the social and pragmatic language skills of children with ASDs.

The ASD Nest Model

BUT HOW WILL THE SOCIAL GENERALIZE?

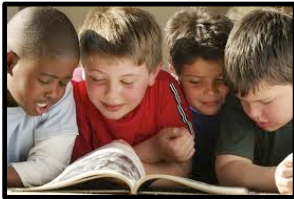
Well, let's make Speech and Language Therapy an integral part of the Nest!

Yeah, Nest kids will have a Pragmatic-based 'lab-time' 3 to 5 times a week!

Ohhh.. and the teachers will collaborate with the SLP and the students during this 'lab-time'!

That's it! The language, concepts, and strategies will then be integrated into the classroom!

The ASD Nest Model



SCHOOL IS SOCIAL!!!!

The ASD Nest Model

COGNITIVE THEORIES

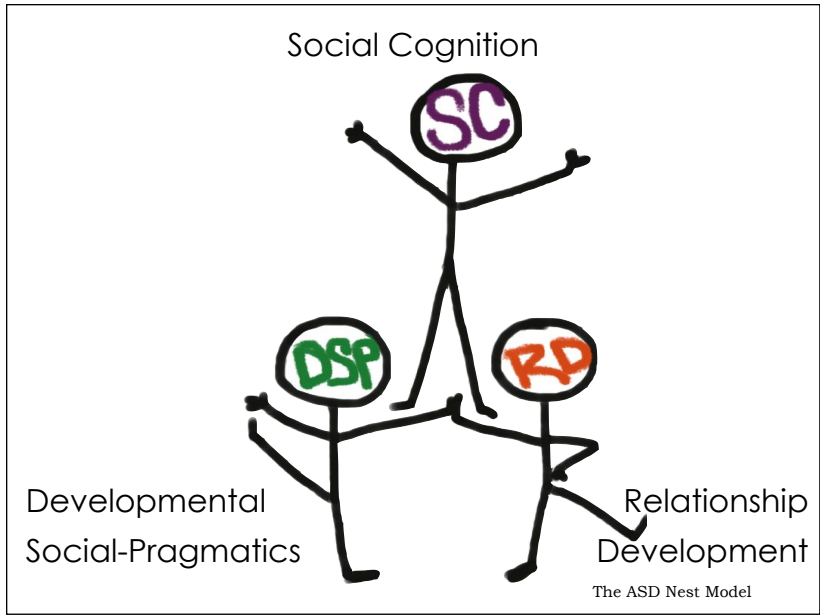
Central Coherence
Theory of Mind
Executive Functioning



**SELF-
DETERMINATION
THEORY**

**DEVELOPMENTAL
SOCIAL
PRAGMATICS**

The ASD Nest Model



SDI Team Planning Map		
Unit : _____ - unit blurb -		
Group Goals		
Social Relational & Social Cognition	Pragmatic Language	Problem Solving
Concepts to explore / highlight / investigate...		
[] [] [] [] []		
Interests to incorporate:		Lessons & Group Work
[]		Academic Content / Curriculum
[]		Instructional Lunch & Recess

© 2012 Brennan, Lanou, Hough
The ASD Nest Model

GOAL #1

SOCIAL RELATIONAL DEVELOPMENT & SOCIAL COGNITION

An intervention that encourages engagement, shared imagination, and dynamic interactions. It focuses on social communication and connected thinking to support classroom learning.

The ASD Nest Model

GOAL #2

PRAGMATIC LANGUAGE & CONVERSATION



Building attention to and the expression of an authentic use of language in a social context by exchanging thoughts, opinions and feelings (verbally & non-verbally)

The ASD Nest Model

GOAL #3

PROBLEM SOLVING

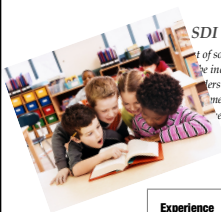


The ability to appraise a situation, consider relevant experiences, new information that is given, the information that is not known, and then put it all together to make a guess about the best solution

The ASD Nest Model

SDI GUIDEPOSTS

ELEMENTARY SCHOOL MODEL



SDI Guideposts for Social Development Across the School Day

... of social development focus areas for the students in the ASD Nest Program. Strategies outlined here can be incorporated in the classroom, the therapy rooms, into instructional lunch and when possible... understanding and addressing these social deficits, we are supporting our students' full participation... ment. These strategies serve to reduce interfering behaviors, giving each child greater access to... en targeting social deficits, we also are consistent in providing positive behavioral supports.

Sections

The Basics					
Page 1					
Experience Sharing	Language & Dynamic Communication	Problem Solving	Social Cognition	Flexibility	Incorporating Strengths & Interests
Page 2	Page 2	Page 3	Page 3	Page 4	Page 4

Ohm, her eyes and face are telling me she isn't interested in meal worms



Assigning roles for group activities supports problem solving

🕒 11:30	Lunch/Recess
🕒 12:15	Surprise!

Incorporating flexibility into the classroom schedule

I'm thinking about the group so I'm going to sit on the rug.

The ASD Nest Model

SDI SESSIONS:

BALANCING EXPERIENCE SHARING & SOCIAL COGNITION

Kindergarten to 2nd grade

Putting the social world on the radar

- Explore & Engage!
- Model
- Highlight
- Social Language
- Expose to Social Concepts

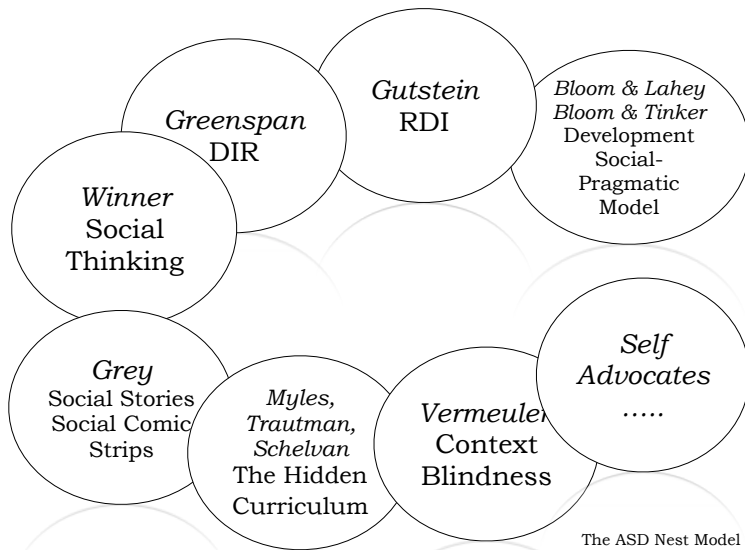
3rd to 5th grade

Thinking through social world

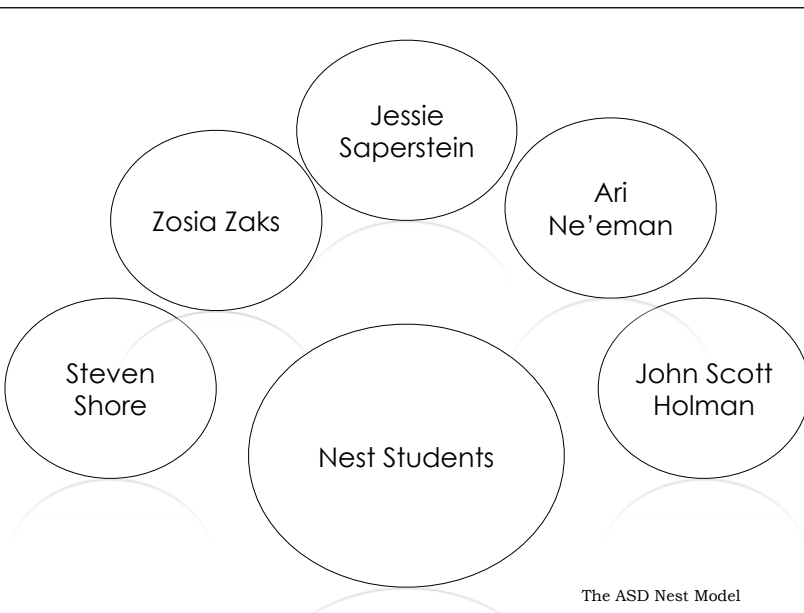
- Explore & Engage!
- Roleplay
- Social Relevance
- Put the Social in Context
- Investigate Social Concepts

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Tailoring an intervention for a public ICT ASD program....



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The ASD Nest Model

WEAVING AND LAYERING SOCIAL CONCEPTS INTO THE SCHOOL DAY

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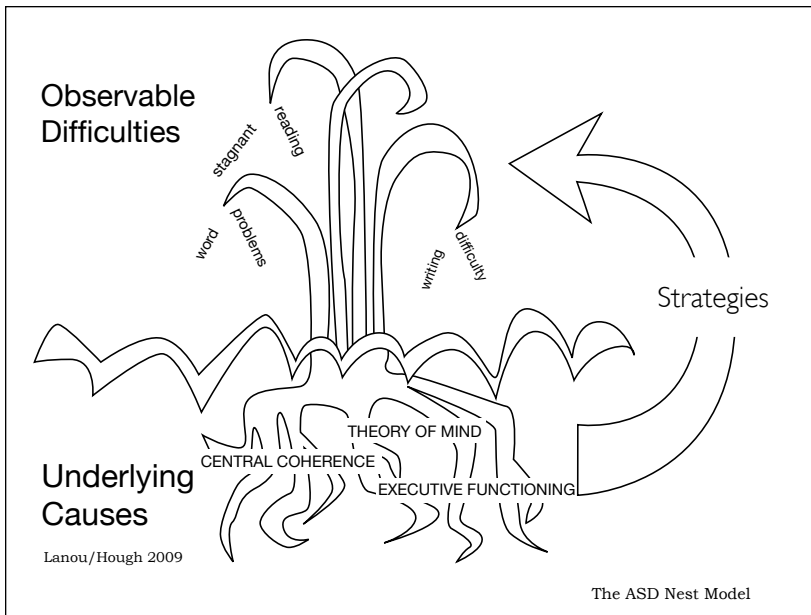
UNDERSTANDING ACADEMICS

Aaron Lanou
Director of Professional Development

OVERVIEW

- Academic Strengths
- Theoretical Frameworks for Academic Challenges
- Academic Difficulties
- Strategies

The ASD Nest Model



ACADEMIC STRENGTHS

<ul style="list-style-type: none"> • READING • Word reading (<i>hyperlexia</i>) • Nonfiction • Recalling details 	<ul style="list-style-type: none"> • WRITING • Creativity • Grammar & syntax • Writing on topics of interest 	<ul style="list-style-type: none"> • MATH • Computation • Recall of basic facts • Following algorithmic procedures
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The ASD Nest Model

THEORETICAL FRAMEWORKS

- Theory of Mind
- Central Coherence Theory
- Executive Functioning

The ASD Nest Model

THEORY OF MIND



- The ability to recognize and interpret other people's thoughts, feelings, beliefs and intentions, live and in the moment, and to understand the implications for one's behavior

She has... to "compute" other's intentions and states of mind, to try to make algorithmic, explicit what for the rest of us is second nature.

O. Sacks, 1995 p. 270

The ASD Nest Model

CENTRAL COHERENCE THEORY



- Difficulty conceptualizing the "big picture" or "gist"
- Hyper-focus on details at the expense of the larger context

*Can't see the forest for the trees?!
I can't see the forest for the veins on the leaves.*

The ASD Nest Model

EXECUTIVE FUNCTIONING



- Organizing and coordinating multiple cognitive tasks, such as:
 - recalling & applying information from memories
 - attention & self-monitoring
 - flexibility in problem solving
 - time management & prioritizing
 - abstract thinking
- Company CEO

Without appropriate support, the child with Asperger's Syndrome may feel he is drowning in a million different sub-tasks.

S. Shore in Attwood, 2007

The ASD Nest Model

READING CHALLENGES

1. Tracking a story / synthesizing text
2. Thinking about characters
3. Understanding figurative & higher-order language

The ASD Nest Model

THINKING ABOUT CHARACTERS

- Understanding character thoughts & feelings
- Considering character motivation & intention
- Inferring internal character traits
- Making self-to-text connections
- Drawing inferences independently

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Pickle Puss by Patricia Reilly Giff, pp. 4-7

Nonsense word → “Emily looked down at the book. It had about a skillion pages. It would take forever to read.

Non-literal language → “Well...” she said. “Go ahead. Try it,” said Freddie.

Perspective taking → “I guess so,” Emily said. She went to Mrs. Baker’s desk. Too bad she didn’t have a skinnier book. She looked back. Freddie was talking to his friend Edward. Emily stuck the fat book on the book cart. She grabbed another one. It was much skinnier.

Deception → She gave it to Mrs Baker. Mrs. Baker checked it out. “You like snakes?” she asked. “Yucks,” said Emily.

Perspective-taking & lying → Then she looked at the book. There was a snake on the cover. It was the kind with the fat neck. Its tooth was sticking out. “I mean, I love them,” Emily said.”

Irrelevant detail →

Inference →

The ASD Nest Model

WRITING CHALLENGES

1. Concept of writing
2. Organizing and prioritizing
3. Considering characters and audience

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ORGANIZING & PRIORITIZING

- Planning and organizing structure
- Understanding details and the main idea
- Managing time and self-monitoring
- Completing long-term projects

The ASD Nest Model

MATH CHALLENGES

1. Abstract concepts
2. Abstract skills
3. Word problems
4. Explaining thinking

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EXPLAINING THINKING

- Checking work for accuracy
- Trying alternate strategies
- Explaining reasoning with words

The ASD Nest Model

ACADEMIC STRATEGIES

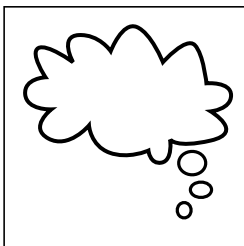
Instructional principles:

- Visuals
- Graphic organizers
- Social-cognitive strategies
- Incorporating student interests

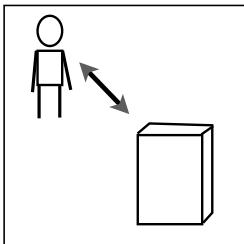
Benefits:

- Use visual strength
- Organize information
- Concretize abstract concepts
- Increase motivation

The ASD Nest Model



Think about your character



Think about how your life relates to the text

The ASD Nest Model


Explaining your work in words

I knew _____ ,
the numbers the problem says

and I needed to know _____ ,
what you're looking for

so I _____ and
what operation or strategy you used

found _____ .
your answer



Lanou 2010

explaining your thinking work
on the state math test

The ASD Nest Model

COMIC STRIP CONVERSATIONS



The ASD Nest Model

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The ASD Nest Model

