

PaTTAN's Mission

The mission of the Pennsylvania Training and Technical Assistance Network (PaTTAN) is to support the efforts and initiatives of the Bureau of Special Education, and to build the capacity of local educational agencies to serve students who receive special education services. PDE's Commitment to Least Restrictive Environment (LRE)

Our goal for each child is to ensure Individualized Education Program (IEP) teams begin with the general education setting with the use of Supplementary Aids and Services before considering a more restrictive environment.

Applied Behavior Analysis

"The science in which tactics derived from the principles of behavior are applied systematically to improve socially significant behavior and experimentation is used to identify the variables responsible for behavior change"

Cooper, Heron, & Heward 2007

Presentation Agenda

Why-is this topic so relevant? Who-is social skills training appropriate for? What-type of instruction should be used with each level learner? Where-should the social skills instruction be run? When-during the school day should this type of instruction be taught? How-is this going to be taught??

**Goal-less questions more answers!







Why is this topic so important?

Early on children with autism without specific instruction/interventions-

- Do not look at others or engage them in activities
- They engage in repetitive behaviors that have little functionality
- They fail to engage in joint attention
- They do not watch others during play or imitate their peers
- Difficult time taking turns or waiting in social situations
- Without training may not mand for items or activities and do not respond to others mand directed to them (share a toy)

(Vince Carbone)

Who? What? Where? When?

- Start instruction early, but its never too late!
- Include peers in the AS classroom and inclusion setting
- Teach in multiple settings for generalization
- Throughout the day in scheduled sessions and naturally occurring situations

Where to begin?

Effective *interventions* for social skills are often the same as for other behaviors

 Pairing, Shaping, Prompting, Prompt Fading, Differential Reinforcement, Errorless Learning, Task Analysis, Chaining, Mand Training, Discrete Trial Training, Natural Environment Training, Fluency Based Instruction / Precision Teaching

Assessment

- Verbal Behavior Milestones Assessment and Placement Program (VB-MAPP: Sundberg)
- Early Start Denver Model Curriculum Checklist for Young Children with Autism (Rogers and Dawson)
- Social Skills Solutions: A Hands on Manual (McKinnon and Krempa)
- Skills Streaming (McGinnis)

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What is language?

- Language is social interaction. Communication is social behavior.
- When teaching learners with limited language skills expanding the foundational language skills is critical to prevent rote language
- Remember that learners need a strong foundation in order to be able to develop more advanced social skills.
- Let's take a quick look at the verbal operants to figure out next steps...

Verbal Operant	Antecedent	Behavior	Consequence
Mand	Motivative Operation (wants cookie)	Verbal behavior (says "cookie")	Direct reinforcement (gets cookie)
Tact	Sensory Stimuli (sees or smells cookie)	Verbal behavior (says "cookie")	Non-specific reinforcemen (gets praised, for instance
Intraverbal	Verbal stimulus (someone says:"What do you eat?")	Verbal behavior (says "cookie")	Non-specific reinforcemer (gets praised, for instance
Echoic	Verbal Stimulus (someone says "cookie")	Verbal behavior: repeats all or part of antecedent (says "cookie")	Non-specific reinforcemen (gets praised, for instance

Operant	Antecedent	Behavior	Consequence			
Receptive (Listener Responding)	Verbal stimulus (someone says "touch cookie")* "in this case the cookie must also be present: all receptive discriminations involve 2 S ^p s	Non-verbal behavior (child touches cookie)	Non-specific reinforcement (gets praised, for instance)			
Imitation Point to point correspondence <u>a.k.a. Mimetic</u>	Non-verbal behavior (person performs an action, etc.)	Non-verbal behavior with point to point correspondence (person imitates same action)	Non-specific reinforcement (example: praise; 'you' re right!', '' great jobl' high five, pat on back, etc.)			
Match to sample	Non-verbal behavior (presentation of stimuli)	Non-verbal behavior (in presence of one stimuli, a second stimuli is selected with shared properties).	Non-specific reinforcement (example: praise; 'you' re rightl', "great job!' high five, pat on back, etc.)			

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Sustained social play video

https://www.youtube.com/watch?v=86SKMuMayhk



THE BIG QUESTIONS

When should we program and set goals for:

- Eye contact?
- Turn taking?
- Answering questions from a peer?
- Playing a game?
- Greetings?

Before answering these questions let's review a few other key factors...

Key Factor: Motivation – Why is it so important?

- Environmental variable (always in the environment!!!) that: a) alters the effectiveness (value) of some stimulus (reinforcer) and, b) alters the frequency of all behavior reinforced by that stimulus (reinforcer)
- In other words it is an antecedent that will alter the value of reinforcers and evokes behavior
- Factors that alter MO Deprivation/Satiation
- Critical component in mand training, social skills training, and natural environment training

Key Factor: Motivation – Why is it so important?

- Motivation plays a role in altering the value of something and effects the frequency of a previously reinforced behavior
 - Reinforcement → consequence that occurs immediately after a behavior and therefore increases the future probability of that behavior occurring again in the future
- If motivation for social interaction is not established it is less likely to occur!

Types of Conditioned Motivating Operations (CMO)

• Variables that alter reinforcement effectiveness as a result of learning history

- CMO-T (transitive) Motivation is established for another object/activity in order to contact terminal reinforcer (e.g. if the terminal reinforcer is playing with a doll house– in order to do so you need all the furniture and dolls and therefore the motivation is established for the differer)
- CMO-R (Reflexive)- Motivation is established for behaviors that will REMOVE item/activity or unpleasant stimulation
 - Increases value of escape as a reinforcer if pre req aren't strong this can be a big area of concern



How do we establish motivation?

TIPS FOR PAIRING

- Remember that reinforcement is "free" when you are pairing
- Pair your voice and child's name with reinforcement.
- Be aware of the child's behavior and signs of interest.
- Reinforce all interaction and engagement. (approach behavior) such as eye contact, smiles, laughs, walking/running to you.
- Narrate the activities rather than instruct.
- Evaluate yourself often: does the child run to you or away from you?

How do we establish motivation?

TIPS FOR PAIRING

- Withhold reinforcement when undesired behaviors occur.
- Do not turn reinforcing activities into a task.
- Avoid associating yourself with aversive events.
- Avoid statements such as "stop", "no", and "don't".
- Avoid asking questions (remember these are demands)

*these same topics will be addressed when we move into peer to peer pairing...



Who?-Manding to Adults

- Early communication from most young children starts with requests to adults.
- Mands are key pre-requisite skills for other more advanced social skills.
- Without strong basic mand repertoire with adults it will be difficult to teach more advanced social skills to be natural under the right motivation
- Adults responding to the student's mands will increase the value of others which will then condition attention and people as reinforcers rather than simple items
- Students need to be proficient at manding with adults before working on manding with other students



General Guidelines for all level learners

- **PAIR-** Pair other children with reinforcement by having those who are ready walk over and give reinforcers to the learner non-contingently
- **MAND-** Once the children are effectively paired with reinforcement (the learner is now approaching the other children or no longer walking away from them and readily accepting reinforcers from peers), begin to have the learner mand for reinforcers that the other children hold.
- **RECEPTIVE INSTRUCTIONS-** When the learner is manding from the other children with no prompts needed, begin to have the other children ask the learner to do simple receptive directions that occur in play. For example: "Pass me the crayon" or "give me the red train"

General Guidelines for all level learners

- MAND FOR ATTENTION- Teach your child to mand for other children's attention to show them things. If the attention of other children is not reinforcing to your child, begin to pair other kids' attention with reinforcement.
- **INTERACTIVE PLAY-** Start to teach the children to engage in a game or activity together that they both enjoy and the learner needs little prompts to do. Examples of these are: board games, sand art, painting, water balloon activities, etc...
- **PRETEND PLAY-** Start to teach the children to act out pretend scenes from stories they have heard or movies they have watched. Once the children begin to act out stories spontaneously with no prompts needed, begin to reinforce any playing that occurs that is different from the original script.





Social Skills for Level I Learner

- Conditioning attention as a reinforcer
- Develop and increase approach behavior through pairing and reinforcer identification
- Ongoing reinforcer identification across categories (edibles, items, activities, actions, social)
- Determining response form (vocal, sign, augmentative, textual, etc)
- Joint Attention
- Manding

Conditioning Attention as a Reinforcer/ Approach Behaviors

- It is critical to establish attention as a conditioned reinforcer to ensure that the social skill development will be natural and generalized rather than rote-if taught too early students acquire skills that are not transferable
- Teaching social skills through pairing known reinforcers with neutral stimuli (people) can result as attention conditioned reinforcers (Taylor Santa, Sidener, Carr, & Reed, 2014; Dozier, Iwata, Thomason-Sassi, Worsdell, Wilson, 2012).

Joint Attention

- One of the earliest forms of social communication
 - Coordinated attention between social partner and object/event in the environment (Taylor & Hock, 2008; Bruner, 1975; Mundy, Sigmond, & Kasari, 1994).
 - Two Elements (Taylor & Hock, 2008)
 - Responding to another's bid for joint attention
 - Initiations for joint attention from others

Joint Attention

7 major factors using the operant analysis (Per Holth)

1. In social interactions that involve visual joint attention, the visual orienting of one person is under discriminative control of the pointing or visual orienting of another person.

2. Such discriminative control may be conditional upon other stimuli. For instance, such point or gaze following may be particularly likely in the presence of certain facial expressions, when someone says "Look!" or when you have asked for directions.

3. In a three-dimensional world, a great many different objects, events, or properties of objects and events may exist in the direction of someone's look, so that identifying the particular stimuli at which someone else is focusing must be jointly controlled by the direction of the look *and*

Joint Attention

4. Both the extent to which someone follows another person's orienting, and the extent to which one operates to get others to follow one's own orienting depends on previous consequences of such behavior.

5. When one directs the attention of someone else, small changes in the right direction may function as reinforcers, and when following someone else's direction, a novel stimulus may, typically, function as a reinforcer.

Joint Attention

6. In both cases, the reinforcers may have gained in strength because they are typical precursors of the moment of joint attention which, in turn, constitutes an occasion upon which other behavior (e.g., verbal behavior) is likely to be reinforced.
7. A limited number of exemplars of successfully following and directing others' attention may suffice to produce a continuous repertoire of such joint attention skills.

(An Operant Analysis of Joint Attention Skills, Per Holth 2005)

Joint Attention using the operant analysis

Practical issues:

- Having found that "joint visual attention is not spontaneously demonstrated by infants until about 10 months of age" and that, "given the appropriate feedback infants are able to acquire a gaze following response from about 8 months on," Corkum and Moore (1995, p. 78) concluded that "learning is a possible mode of acquisition for joint visual attention." --first step towards an analysis of the variables of which joint attention skills are a function.
- If joint attention skills are amenable to an operant analysis, learning protocols can be created and skills can be taught

(An Operant Analysis of Joint Attention Skills, Per Holth 2005)

Joint Attention; sample

SKILL TARGET: Social referencing-Establishing normal social stimuli as reinforcers

If social stimuli that function as reinforcers for behavior in most people, including children, do not do so for behavior in children with autism, a crucial step may be to establish such events as reinforcers. The following outline of a training procedure will focus on establishing others' nodding and smiling as reinforcers.

Joint Attention; sample

Training: Trainer and child are seated face-to-face at opposite sides of a table.

- Spread approximately 10 small edible reinforcers around the table.
- Any attempt from the child to take pieces from the table should be blocked.
- When the child sits quietly, nod and smile before you let the child take one item. If the child does respond, repeat the nod and smile, and prompt the child to take one item from the table.

Joint Attention; sample

- Then, as long as you do not nod and smile, block any attempts the child may make to take things from the table, and when you nod and smile, let the child take another item, and so on.
- Let the time vary between each time you nod and smile. When the child takes items from the table only immediately following your nods and smiles, this constitutes a simple version of social referencing.

At this point the nods and smiles function as an SD for the child's response in taking items form the table and a conditioned reinforcer for any behavior that produces the instructor to smile and nod

(per holth)

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Role of Eye Contact

- It is critical to condition the response of the communication partner as a reinforcer for social behavior and thereby arrange the conditions under which typical children develop social responses
- It has also been suggested that poor eye contact may adversely affect the educational gains of children with autism due to the relationship between eye contact and attending to the teacher and instructional demands (Greer & Ross, 2007; Lovaas, 1977).
- Case study defined eye contact as; movement by student's head and eyes so as to make direct contact with the eyes of the person from whom he was manding immediately prior to or simultaneous with the vocal mand response.

(Teaching Eye Contact to Children with Autism: A Conceptual Analysis and Single Case Study, Carbone 2013)

The Role of Eye Contact continued

Eye contact defined as in case study;

- A correct response was defined as the production of a oneword vocal mand that was immediately preceded or accompanied by an eye contact response. An incorrect response was defined as the production of a vocal mand that was not immediately preceded or accompanied by an eye contact response.
- The dependent measure in this study was the percentage of mands accompanied by eye contact during a 3 hr session.

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The Role of Eye Contact continued

- The case study concludes that the sight of the listener's eyes and face were conditioned as reinforcers within the context of manding for preferred items and activities.
- If social consequences can be conditioned as reinforcers, as is displayed in this case, the implications for functional outcomes for children with autism using these and similar procedures is vast.
- The eye contact response targeted here is one step in a progression of increasingly complex social interactions

(Teaching Eye Contact to Children with Autism: A Conceptual Analysis and Single Case Study, Carbone 2013)

Eye Contact

https://www.youtube.com/watch?v=dexg1h44AdQ

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Mands & Other Language Skills

- After a basic mand repertoire is established it is important to broaden that skill set to more advanced mand repertoire with adults before moving into systematic programming with peers
- In reference to the other verbal operants it is critical to also build strong repetoires in tacting, tacting actions, tacting adjectives, tacting prepositions, etc
- Without a strong tact repertoire it will be difficult for students to engage in meaning conversations and exchanges involving a combination of mands, tacts, listener response, and intraverbals





Social Skills for Level 2 learner

- Continue to build strong mand repertoire with adults using mands for actions, missing items, information, etc
- Implement peer to peer mand sessions in the AS classroom
- Transfer skills acquired in peer to peer mand sessions with a variety of peers in the classroom and in the gen ed setting
- Continue to expand reinforcer identification to be age appropriate

Who?-Peers

- When possible, target students that have previously shown interest in each other
- It is critical the students have go through peer to peer pairing process
- Select students who have differing interests in reinforcers, in other words, try to find reinforcers that both students will not both want to have (initially)

Peer to Peer Pairing Ideal if have reverse inclusion opportunities Identify willing peer 'buddy' OR partner students accordingly Identify potential reinforcer for student, preferably one that is NOT a potential reinforcer for the peer AND that has multiple parts. Identify a potential reinforcer for the peer – use as promise reinforcer









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What's next?- Peer to Peer Manding

Materials needed for reinforcers

- Basic methods for determining reinforcers to be used in mand training it is critical to select items to be used as targets and have a variety of items to be used as reinforcers
- · Previously mastered mands
- Ongoing preference assessments
- Materials that have many parts AND that the student has had exposure to in the past
 - Motivation for task completion; CMO-T
 - Examples: train track, legos, doll house

Reinforcer Identification

- Conducting a Preference Assessment we can only identify reinforcers when we see how presentation of the item or event alters the frequency of the behavior it follows.
- Categories Commonly Included on Preference Assessment:
 - Consumables, food/drink
 - Tangible items, toys, materials
 - Activities that involve movemen
 - Games
 - Social Interactions
 - Music

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Conditioning peers as reinforcers

• An important piece for students when developing social skills is recognizing that other people in their environment can be of value to them -if this component is missing the student has not actually acquired a generalized concept and the training process will take much longer to develop in the natural environment

Important factors before implementation

- Select the response form: vocal, signing, written, picture exchange, communication board, electronic device-can the peer respond to that specific response form
- Does the student respond socially when instructor pairs social interactions with the delivery of reinforcements
- Does the student display mand techniques across multiple conditions, people, and exemplars
- Does the student have a broad repertoire of mastered mands that can be used in peer to peer sessions
- Does the student have MO for the items selected for peer to peer sessions

Basic peer to peer manding procedures

- · Choose items students have high MO for and will want during sessions
- Control environment:
 - place students so they have access to each others items, but cannot access their own
 - Students should face each other at an angle
 - Sanitize environment
- Reinforce students at a high rate for requesting and delivering items fade instructor reinforcement as student behavior is shaped
- Instructors prompt and reinforce from behind providing very little interaction
- If the instructor needs to provide a prompt from behind (partial physical for delivery) or vocal/sign for the mand to the peer should occur with limited interaction

Peer to peer procedures continued

- Role of the teacher
 - NOT to help contrive motivation for the item
 - Help peers interact
 - Prompt the speaker to mand with a vocal prompt
 - Prompt the listener to respond with NONVOCAL prompts

Use of differential reinforcement

- Reinforce responses that meet the targets that is identified for that specific student : unprompted deliveries, unprompted mands, mand for actions, mand for attention, duration of peer interactions
- Use differential reinforcement to shape student behavior during peer-to-peer manding sessions
- Provide high levels reinforcement for desired responses



Outcomes

- Students see peers as being reinforcing
- Increase in social play skills
- Prerequisite skills for social skills instruction
- · Increase in initiation of interaction with peers
- Increase in awareness of peers
- Less parallel play, more cooperative play
- Students share reinforcers with peers
- Students are observed as enjoying the company of their peers

Where next?

- Move from select peers to random peers in the classroom
- Peer to peer opportunities in the natural environment with peers from multiple settings

Social Skill <u>Observat</u>	tion Log							
Student:	Observer:	D	ate:	Time: to	from			
	to Peer Y N Initiates v				ges with Peer Y			
Optional coding: (+) = appro	priate response (+3); appropriate respons	se in 3 seconds ; (-) = non	n-appropriate respon	se; (-3) non-approp	oriate but within 3 seco	nds ; NR= no response		
	Activity	Contrived Or	Peer(s)/adult(s	Individual (I) or Group (G)	Initiates	Reciprocates	Engages	
		Unplanned) participating	or Group (G)	+, -, NR	+, -, NR	+, -, NR	
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Timeline for Peer to Peer Manding

- Identified peer participant 10/1/16
- Initiated conversation with staff 11/8/16
- Provided initial student training 11/29/16 (spoke to student about pairing and manding)
- Began peer to peer pairing with student 1 11/29/16
- Began peer to peer manding with student 1 12/13/16 (before student began this, teacher modeled manding and explained what the students should be doing, looking for, etc.)
- Follow-up student training 3/14/2017
- Began peer to peer manding with student 2 3/21/17
- Began data collection peer to peer manding with student 2 3/23/17
- Video 1 5.18.2017
- Demonstrated typical peer mands to target peer 5.18.2017
- Demonstrated peer to peer manding for information using "what" -5.18.2017



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Avery's Manding Sessions			Avery's Manding Sessions				
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Sample

 Video of peer to peer manding <u>https://drive.google.com/file/d/0B-</u> <u>rtH0eRuirNWWxTbUhzWnZTTnM/view?ts=59760016</u>



Language Skills Needed

- It is important for learners to have acquired language skills to be able to follow rule governed behavior –this is critical in order to benefit from social skills instruction at higher levels
- Rule governed behavior: "behavior is controlled by verbal antecedents rather than more directly by its particular consequences" (Catania, Shimoff, & Matthews, 1989, p.119).
- If learners contact higher rates of reinforcement through behaviors that are not socially acceptable more efficiently than they may contact reinforcement for socially appropriate rule-following behavior, reviewing rules for behavior is not likely to result in improvement in socially appropriate behaviors. (Kittenbrink NAC 2016)

How to get there?

- If students have language skills, but rule-governed behavior is not established as a generalized repertoire
 - Teach basic rules with specific prompting and differential reinforcement for rulefollowing and then fade differential reinforcement and have direct contingencies support maintenance of the behavior.

Behavioral Skills Training

- Research validated treatment package used to effectively teach a variety of skills to a variety of populations a variety of skills.
 - Core elements: instruction, modeling, rehearsal, feedback

(Buck, 2014)

Skillstreaming

- Skillstreaming (social skills curriculum)-students need to have level 2 completed and majority of Level 3 for the VBMAPP in order to understand the language in the curriculum and respond to rule governed behavior
- A behavior skills training- including an assessment, instructional guide, curriculum, and resources to teach a variety of basic social skills.
- Materials: Behavior skill cards, student manual, instructor manual, video models, lesson plans & activities.
- Reinforcement: Will likely need reinforcement which will need to be faded systematically.

Skillstreaming

- Each skill is broken into small steps. Steps are are formally taught through behavioral skills training.
- Homework is assigned after.
- Natural Environment Teaching (NET) opportunity to practice skills should be structured.



Feaching Procedures Ore Teaching Procedures Modeling Role-Playing Performance Feedback Generalization Training

Skillstreaming- Behavioral Skills Training

- Step I: Define skill
- Step 2: Model skill
- Step 3: Establish student need for skill
- Step 4: Select the 1st role player
- Step 5: Set up the role play
- Step 6: Conduct role play
- Step 7: Provide performance feedback
- Step 8: Select the next role-player
- Step 9: Assign skill homework

Reinforcement during lessons

- Set contingencies
- Immediacy
- Consistency
- Frequency
- Amount
- Variety

Generalization of skills taught

- Thin/delay reinforcement
- Fade prompts
- Additional sessions of previously mastered lessons
- Prepare for real-life nonreinforcement
- Systems for reinforcement in the natural environment
- Use natural reinforcers

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Sample lesson

Lesson 10 Joining in-does the student decide on the best way to become part of an ongoing activity or group?

Key : I – Almost Never 2 – Seldom 3 – Sometimes 4 – Often 5 – Almost Always

Joining In Rules

- I. Decide if you want to join in an activity others are doing
- 2. Decide the best way to join in
- 3. Decide the best time to join in
- 4. Join the activity

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Video of Big Bang Theory

- <u>https://www.youtube.com/watch?v=6ca7lx0NJYc&list=PL0yIYx</u> k2jTlDnawbdJEH_fbKXL3a01MHV&index=2
- https://www.youtube.com/watch?v=htzgLnD2F78

Summary of Social Skills

- Social skills are complex-use an assessment to guide programming and decisions
- Social skills require specific teaching and should not be left up to chance
- Specific prerequisite skills are necessary prior to starting a structure curriculum
- Social skills instruction is necessary and should start early BUT it is never too late!
- Teach systematic at first and then move to the natural environment
- · Keep in mind age appropriateness and value of the reinforcers
- HAVE FUN !

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