

From Discrete Trial to Real Life Applications

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National Autism Conference

Rebekah Houck, M.Ed., BCBA
Amy Naccarelli, Ed.D., BCBA



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.

Objectives

- Participants will be able to identify:
 - Methods as described in the literature for promoting the generalization of skills in the classroom
 - Considerations for programming, target selection, lesson plan development, and goal setting to support students in generalizing skills from discrete trial instruction to real life applications
 - Barriers to implementation when moving from discrete trial instruction to real life applications

Today's Agenda

- Myths and Dimensions of ABA
- History of DTT and Generalization
- Technical Analysis of Atomic Repertoires
- Real Life Applications of Adaptive Behavior
- Integrated System of Instruction
- Staff and Parent Training
- Classroom Examples
- Barriers to Implementation
- Ethical and Cultural Considerations
- Getting Started

Word Cloud Activity



What word comes to mind when you hear: **GENERALIZATION**



Respond at [PollEv.com/nac129](https://www.poll-ev.com/nac129)



Text **NAC129** to **22333** once to join, then text your message

Myth #1 ABA is Only for Children with Autism

Applied behavior analysis (ABA) is a science. It is often referred to as an intervention for children with autism. Actually, teaching approaches based on ABA are effective for everyone.

- Organizational behavior management
- Gerontology
- Health/ fitness
- Animal behavior
- Gambling
- Environment / sustainability

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Implications of an Advice-Giving and Teacher Role on Language Production in Adults With Dementia

Katinka Dijkstra, PhD,¹ Michelle Bourgeois, PhD,¹
Gina Youmans, PhD,² and Adrienne Hancock, PhD³

Purpose: The purpose of the two studies described in this paper was to assess whether adults with dementia could assume an advice-giving role (Study 1) and a teacher role (Study 2) despite their cognitive impairments. So far, no research on adults with dementia has compared language production in a social conversation condition with that in an advice-giving condition.

dementia successfully taught students to prepare the recipes. However, the experimenter needed to prompt the adults with dementia more often than they did the older adults without dementia in order to get them to finish the cooking task. **Implications:** Both studies demonstrate that preserved discourse and role-related abilities in adults with dementia may allow

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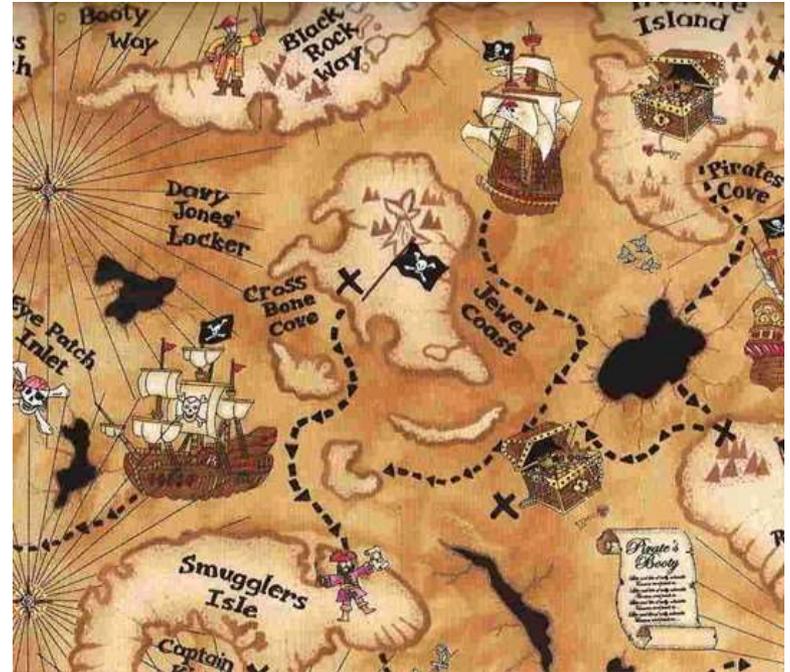
Myth #2 DTT is Only for Young Children



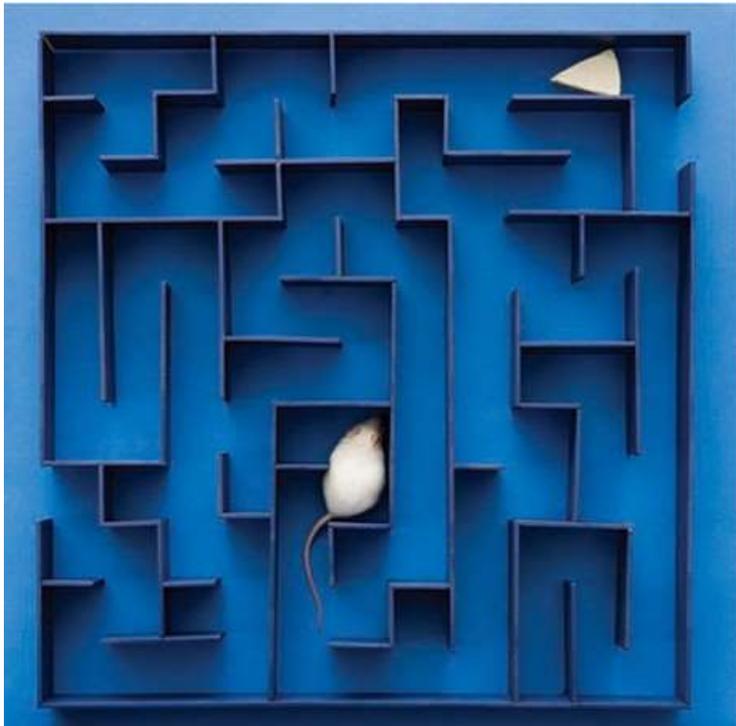
1:1 instruction or “DTT” often includes discrete trials. Discrete trials are just one of many types of procedures for arranging behavioral contingencies. They have a long history in applied behavior analysis, experimental psychology and the experimental analysis of behavior.

Myth #3 ABA (DTT) is Done at a Table

Applied Behavior Analysis is not restricted to one environmental area. On the contrary, Applied Behavior Analysis is inherently concerned with individuals' ability to generalize information; which is often accomplished by varying the location and manner in which skills are taught.



Myth #4 ABA Techniques are Too Simplistic



ABA is not only for basic, simple responding. ABA can accommodate enriched and complex responding that's structure becomes looser as learners progress.

Myth #5 ABA Only Use Edibles as Reinforcers

Primary reinforcers -
unlearned

Conditioned
reinforcers - learned,
by being paired with a
primary reinforcer

Social reinforcers -
involve other people



7 Dimensions of ABA

Generality - skills/ behavior occur in environments other than where they were discretely taught.

Effective - interventions are monitored to evaluate the impact on the target behavior.

Technological - procedures are described clearly and concisely so that other may implement accurately.

7 Dimensions

Applied - socially significant behaviors are selected.

Conceptually Systematic - interventions consistent with principles demonstrated in the literature.

Analytic - decisions are data based.

Behavioral - observable and measurable behaviors are targeted.

Skinner's Vision

Vilardaga (2009) suggests that ABA is in “many ways more influential, but it’s scope and vision have narrowed.”



A History of Discrete Trial ...

Discrete = small unit of instruction; a method for “individualizing and simplifying instruction.”

- Precise format
- Clarifies teaching situation
- Has a beginning and an end

DTT: Benefits and Limitations

Benefits:

- Use of prompts in the antecedent condition
- Increased desired behavior
- Strengthen incompatible behavior
- Arranging a reinforcing enriched environment
- Stimulus Control of learner repertoires
- High number of training trials
- Progressive steps in curriculum

Limitations:

- Mainly teacher initiated
- May generate rote responding
- Requires procedures to ensure generalization
- Lack of powerful and immediate reinforcers readily available
- All operants are not easily contrived (Mand, IV)
- Non-naturalistic setting

A History of Generalization ...

1950

Concept
Formation
(Keller &
Schoenfeld)

1953

Science and
Human
Behavior
(Skinner)

1968

Some
Current
Dimensions
of Applied
Behavior
Analysis
(Baer, Wolf
& Risley)

1971

Stimulus
Equivalence
(Murray
Sidman)

1977

An Implicit
Technology of
Generalization
(Stokes & Baer)

Train and Hope

- It is usually “hoped” that some generalization may occur, which will be welcomed yet not explicitly programmed (p. 351).
- Almost 50% of applied literature in 1977 uses this intervention for generalization probes.

JOURNAL OF APPLIED BEHAVIOR ANALYSIS 1977, 10, 349-367 NUMBER 2 (SUMMER) 1977

AN IMPLICIT TECHNOLOGY OF GENERALIZATION¹

TREVOR F. STOKES AND DONALD M. BAER

THE UNIVERSITY OF MANITOBA AND THE UNIVERSITY OF KANSAS

Traditionally, discrimination has been understood as an active process, and a technology of its procedures has been developed and practiced extensively. Generalization, by contrast, has been considered the natural result of failing to practice a discrimination technology adequately, and thus has remained a passive concept almost devoid of a technology. But, generalization is equally deserving of an active conceptualization and technology. This review summarizes the structure of the generalization literature and its implicit embryonic technology, categorizing studies designed to assess or program generalization according to nine general headings: Train and Hope; Sequential Modification; Introduce to Natural Maintaining Contingencies; Train Sufficient Exemplars; Train Loosely; Use Indiscriminable Contingencies; Program Common Stimuli; Mediate Generalization; and Train "To Generalize".

DESCRIPTORS: generalization, treatment-gain durability, followup measures, maintenance, postcheck methodology

Traditionally, many theorists have considered generalization to be a *passive* phenomenon. Generalization was not seen as an operant response that could be programmed, but as a description

Schoenfeld, 1950, p. 168ff.). Thus, generalization was something that happened, not something produced by procedures specific to it.

If generalization seemed absent or insignifi-

Sequential Modification

Once generalization probes occur AND if generalization is found to be absent or deficient, procedures are then initiated systematically in every non-generalized condition.

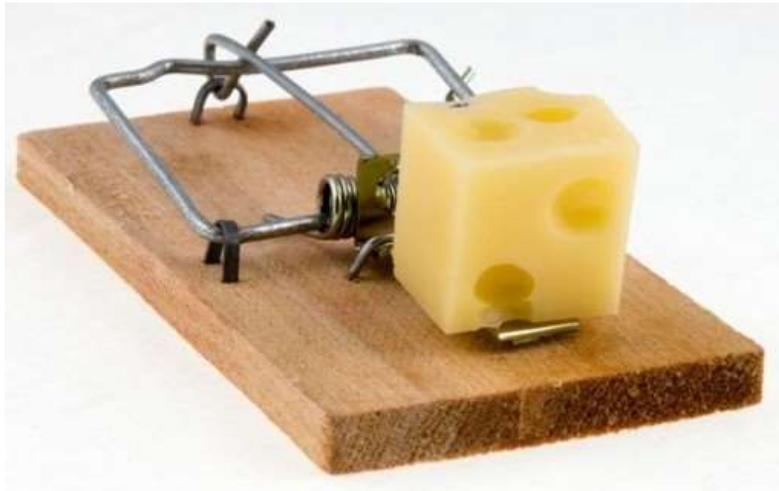
- An extension of train and hope
- But a systematic one
- Focus on the consequence condition

Naturally Maintaining Contingencies



Choosing those behaviors to generalize that will contact reinforcement that is naturally maintained elsewhere.

Behavior Traps



- Identify your prey
- Find powerful bait
- Set the trap
- Maintain your trap
- Appraise your catch

Train Loosely



Vary noncritical aspects of the instruction setting during and across teaching sessions

Example:

- Change position
- Change tone of voice
- Change facial expression
- Dress differently
- Vary lighting, temperature, noise

Use Indiscriminable Contingencies

The learner cannot discriminate whether the next response will produce reinforcement (p. 636).

Example:

- Intermittent schedules of reinforcement
- Delayed rewards - no clear stimuli in the environment
- Intermittent Grading - randomly selected 25% papers to grade - bonus point to class contingent on graded papers

Program Common Stimuli



Including typical features of the generalization setting into the instructional setting (p. 632).

- Identify & incorporate “mock” social setting i.e. audition, race, apartment
- Observe or use critical people (socially validate)
- Use natural environment assessments or contingencies

Mediate Generalization

Examples include:

- Following multiple step directions
- Self-management skills



Train to Generalize

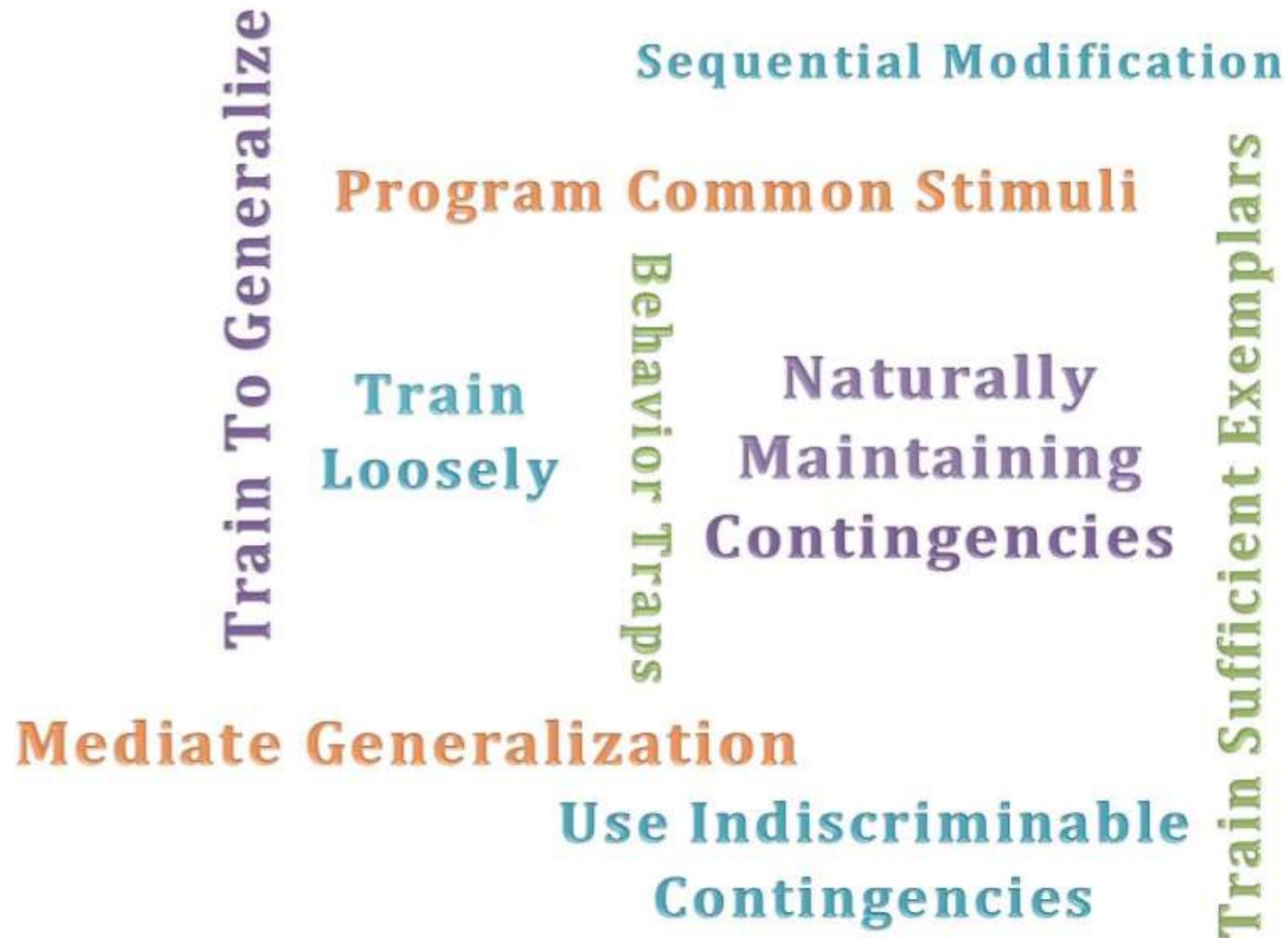


Treat “to generalize” as a behavior itself. Placing some sort of contingency on “generalize” itself.

Example:

- Problem solve a social problem
- Block design (Stokes & Baer, p. 362)
- Multiple ways to solve a math problem

Technology of Generalization



Atomic Repertoires and Autism

- Common Issues:
 - Failure to use skills taught in novel ways or under novel circumstances
 - Failure to transfer responses to novel exemplars
 - Responding to a very limited number of cues in the environment



Technical Analysis: Atomic Repertoires

“Elementary units of behavior”

“...aset of fine-grained units of behavior, each under control of a distinctive stimulus, that can be evoked in any permutation by the arrangement of corresponding stimuli” (p. 61)



Technical Analysis: Complex Behavior

- Complex behaviors:
 - Are rarely shaped bit by bit
 - Arise from other behaviors that have been shaped



(Palmer, 2012)

Examples of Atomic Repertoires



Imitation



Echoic



Transcriptive Behavior



Tact



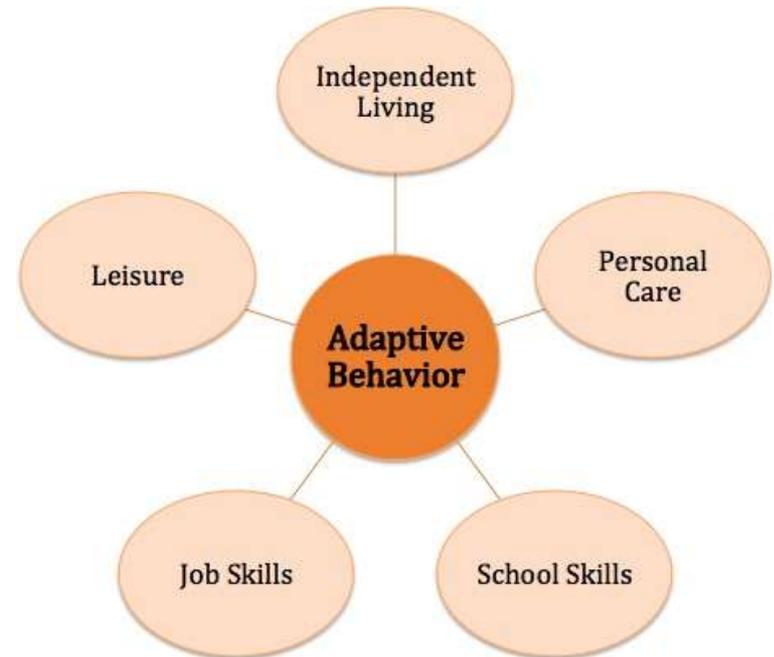
Textual Behavior

Importance of Atomic Repertoires

- Valuable and efficient
 - Atomic repertoires can be brought together to teach complex skills
 - Result in more generalized and generative responding
 - Maintained by natural contingencies

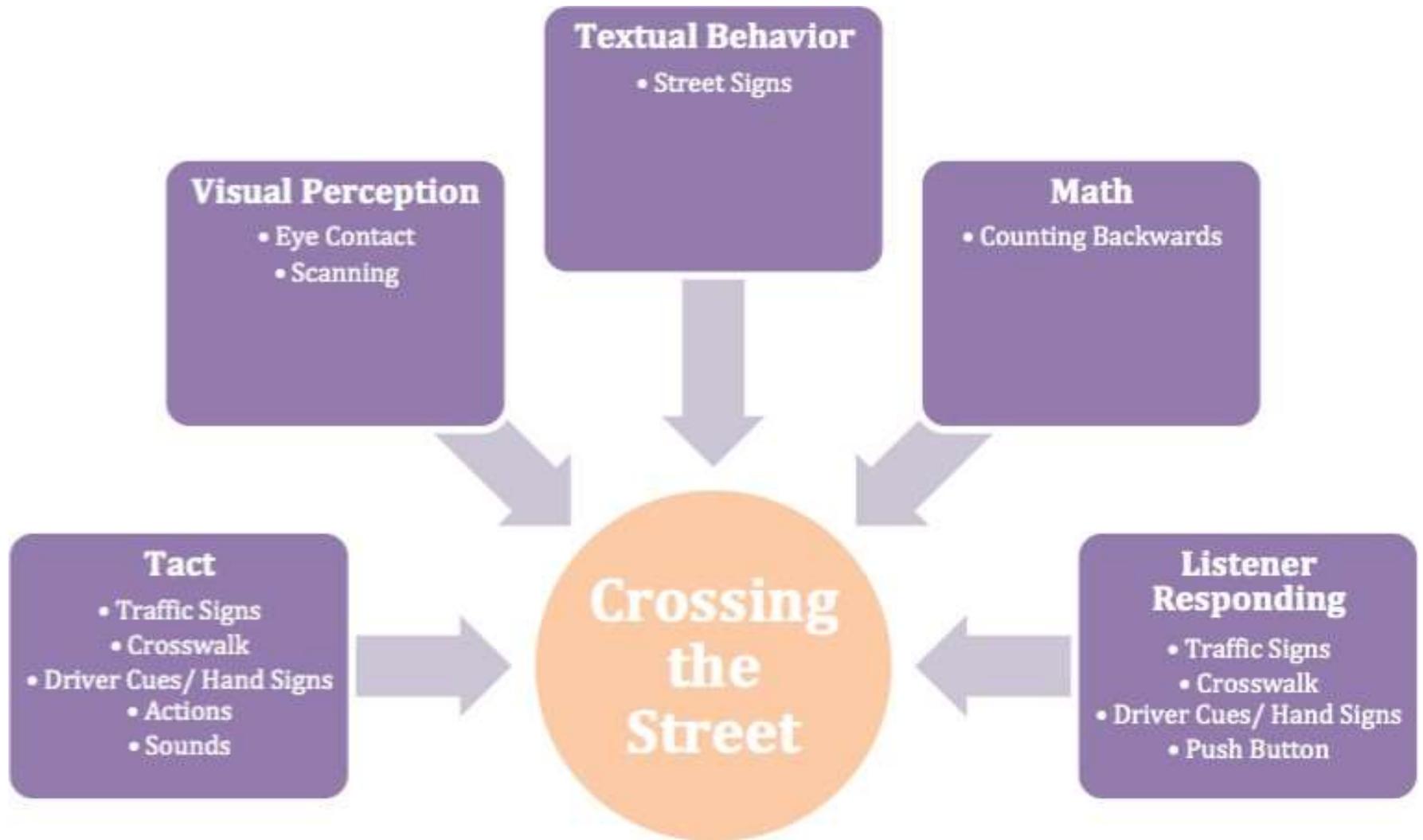
Adaptive Behavior

- Personal independence
 - Age
 - Cultural expectations
 - Social group
 - Environment



“... Quite simply, everything we do that is not purely academic in nature” (Gerhardt, Zawacki, & Satriale, p. 159)

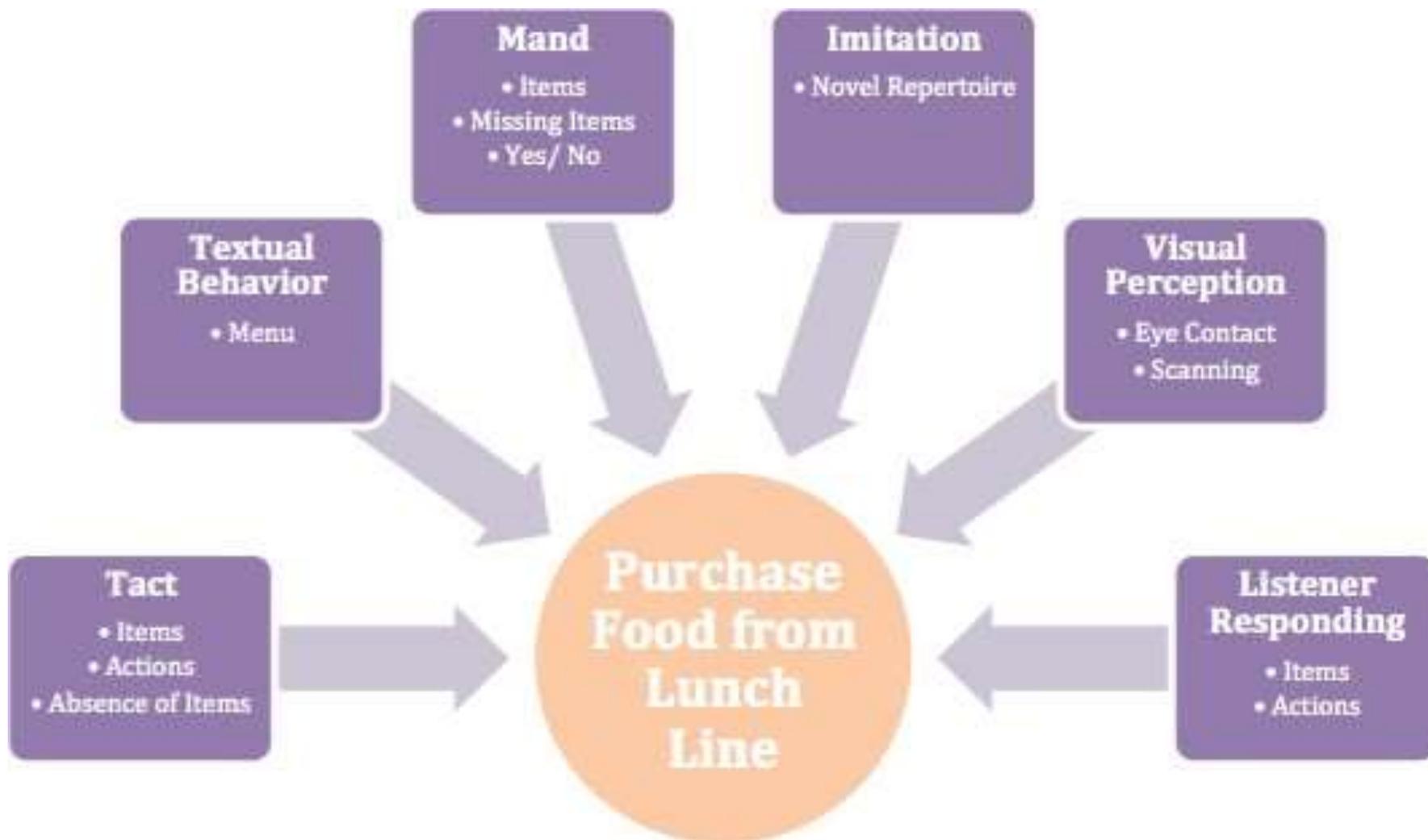
Complex Behavior: Independent Living



Complex Behavior: Personal Care



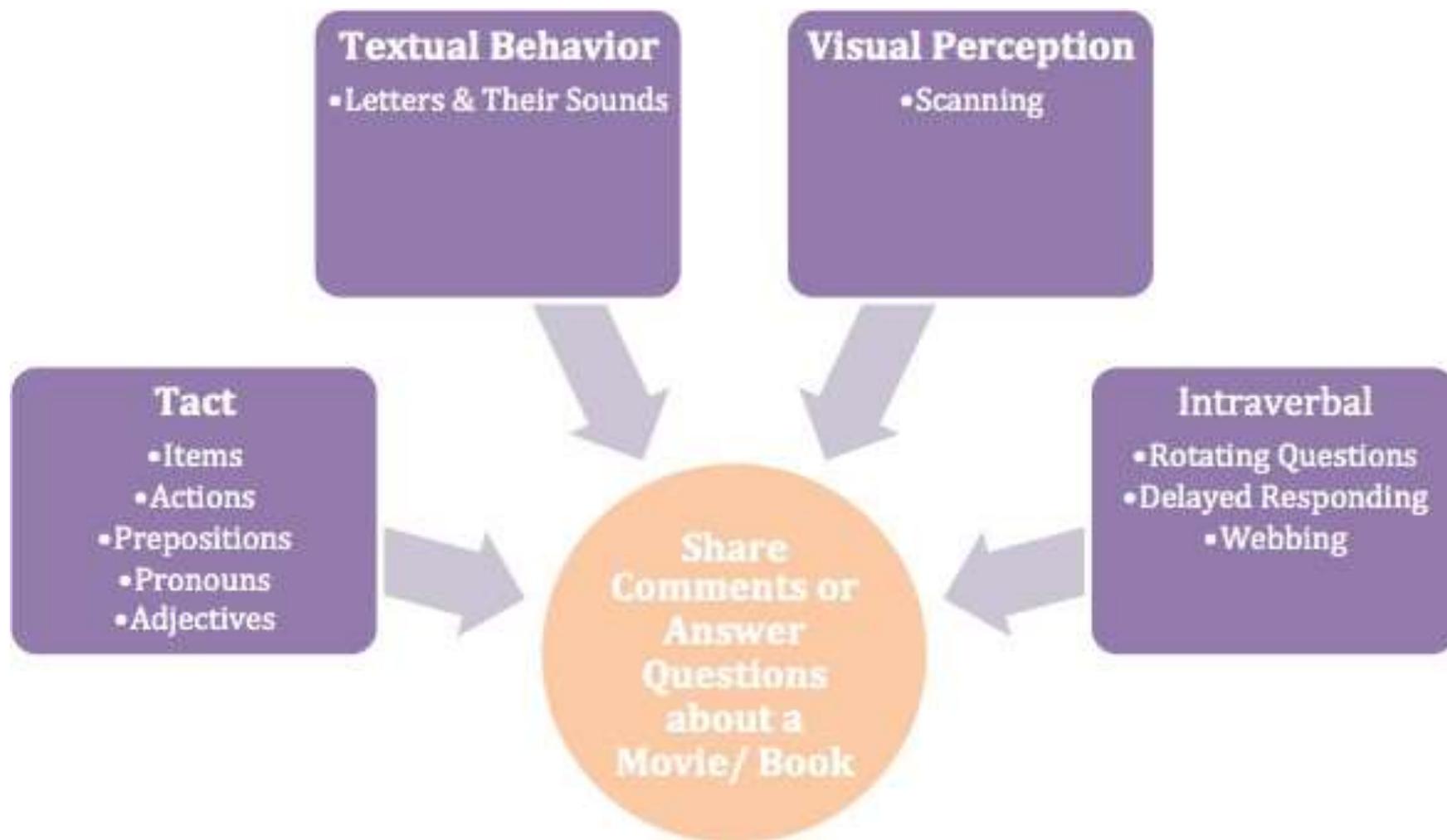
Complex Behavior: Schools Skills



Complex Behavior: Job Skills



Complex Behavior: Leisure Skills



Parent Interviews: Quality of Life

- What skills are relevant to promote the quality of a meaningful life, including those that are most important for your child's future?



Parent Interviews: Summary

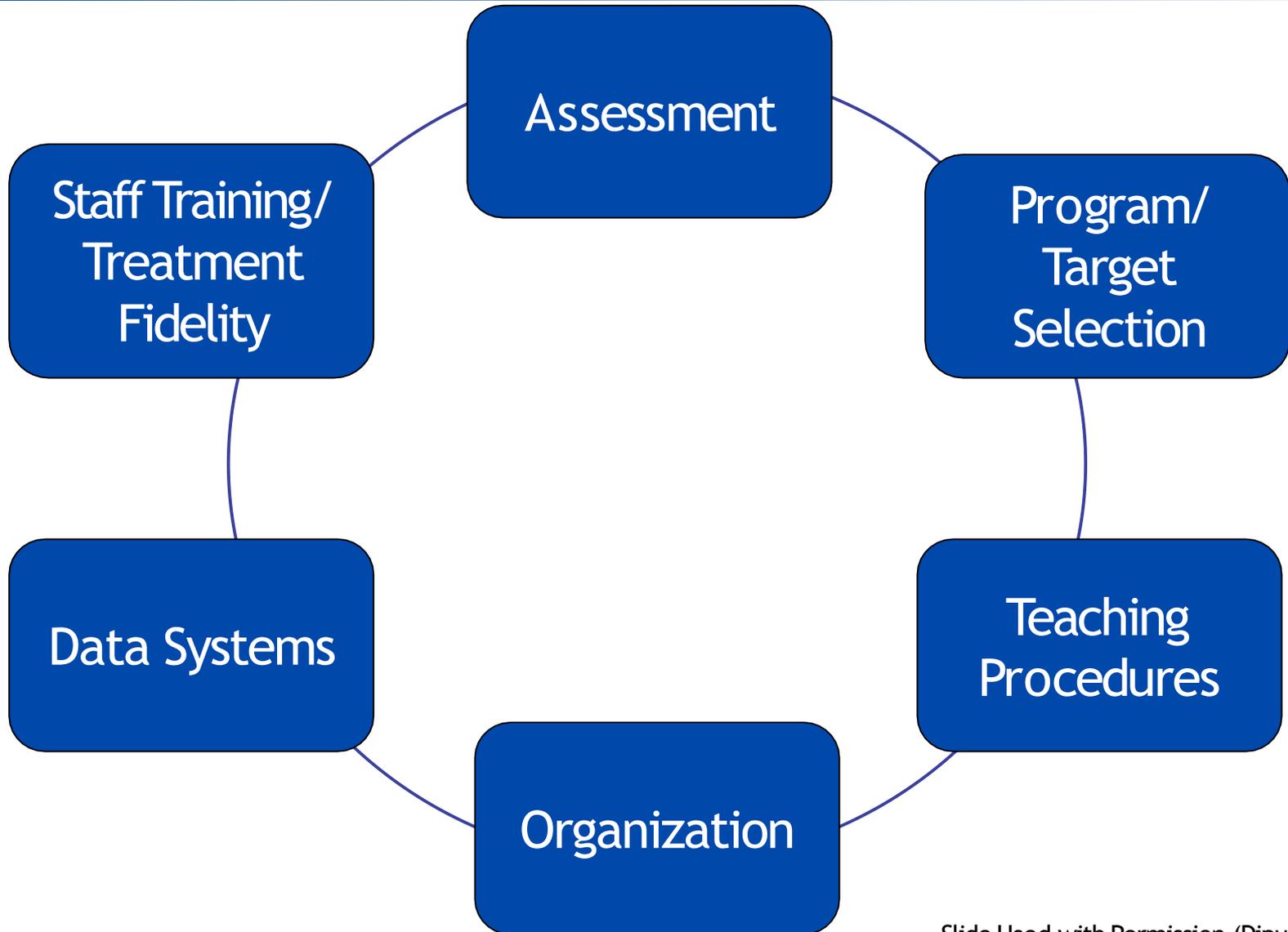
Elementary Student, age 8

- Meaningful Life
 - Flexibility/transitions
 - Vocabulary
 - Toileting/community outings
- Anticipated Changes
 - Flexibility/job skills
 - Have a real friend
- Post Graduation
 - Follow directions
 - Read
 - Independence
- Parent Training
 - Person to person
 - Specific topics
 - Video skills

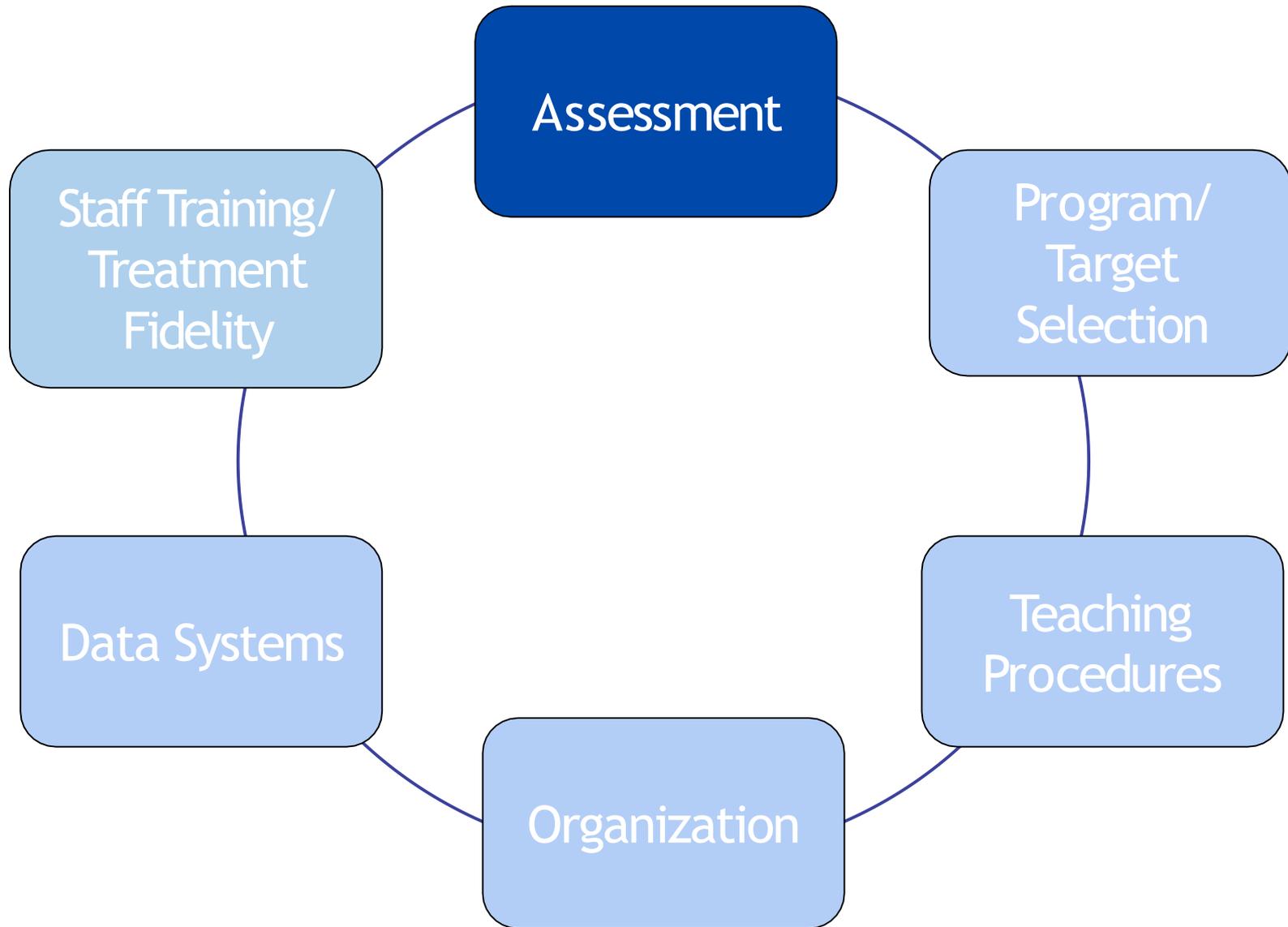
Sophomore Student, age 16

- Meaningful Life
 - Independent life skills
 - Communication/social skills
 - Cooking/safety skills
- Anticipated Changes
 - Greater independence
 - Community member
 - Socialize
- Post Graduation
 - Initiate communication
 - Have job/follow job rules
- Parent Training
 - Face to face
 - Collaborative brainstorming

An Integrated System of Instruction



An Integrated System of Instruction



Methods of Assessment

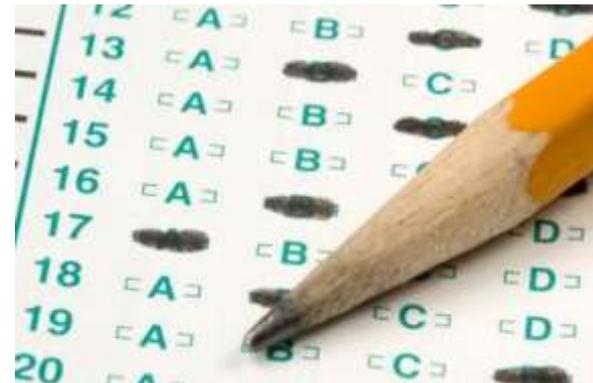
Indirect

- Interview
- Checklist
- Survey
- Rating scale



Direct

- Tests
- Direct observation
- Standardized exams
- Portfolio



Considerations for Assessment

- Assessments should:
 - Be efficient
 - Yield the necessary information to determine what skills need to be taught



Considerations for Assessment

- Criteria are intended for assessment purposes and do not imply mastery of the skill sets
- Check for generalization of skills
- Check for prerequisite skills needed to teach complex behaviors



Assessment Criteria Example

**Listener Response 11:
Performs 5 activities of dressing or personal hygiene
when directed to do so**

Should-have Listener Responses

Following Directions to Complete Routine Activities

NA	LR12. Completes five activities of dressing or personal hygiene when directed to do so												
1	IA	IM	-SA	-DC	-RP	FP	PP	MP	Ind	2S	2P	Def	
2	IA	IM	-SA	-DC	-RP	FP	PP	MP	Ind	2S	2P	Def	
3	IA	IM	-SA	-DC	-RP	FP	PP	MP	Ind	2S	2P	Def	
4	IA	IM	-SA	-DC	-RP	FP	PP	MP	Ind	2S	2P	Def	
5	IA	IM	-SA	-DC	-RP	FP	PP	MP	Ind	2S	2P	Def	

Assessment Criteria Example

Tact Milestone 8:

Tacts (Labels) 10 actions when asked, for example, “What am I doing?”

LEVEL 2

	Mand	Tact	STS	Play	Social	Imitation	Echoic	LRFFC	IV	Group	Ling.
10											
9											
8											
7											
6											

○○○○ ○○○○ ○○○○ ○○○○ ○○○○ ○○○○ ○○○○ ○○○○ ○○○○ ○○○○ ○○○○ ○○○○

Assessment Criteria Example

Listener Response 16:
Performs 5 household chores or chores at work
when directed to do so

NA	LR16. Performs five household chores or chores at work when directed to do so												
1	IA	IM	-SA	-DC	-RP	FP	PP	MP	Ind	2S	2P	Def	
2	IA	IM	-SA	-DC	-RP	FP	PP	MP	Ind	2S	2P	Def	
3	IA	IM	-SA	-DC	-RP	FP	PP	MP	Ind	2S	2P	Def	
4	IA	IM	-SA	-DC	-RP	FP	PP	MP	Ind	2S	2P	Def	
5	IA	IM	-SA	-DC	-RP	FP	PP	MP	Ind	2S	2P	Def	

Generalization of Skills Example

TEACHER/STAFF CHECKLIST

Student _____ Class/age _____

Teacher/staff _____ Date _____

INSTRUCTIONS: Listed below are a number of skills that children are more or less proficient in using. This checklist will help you evaluate how well each child uses the various skills. For each child, rate his/her use of each skill, based on your observations of his/her behavior in various situations.

Circle 1 if the child is *almost never* good at using the skill.

Circle 2 if the child is *seldom* good at using the skill.

Circle 3 if the child is *sometimes* good at using the skill.

Circle 4 if the child is *often* good at using the skill.

Circle 5 if the child is *almost always* good at using the skill.

Please rate the child on all skills listed. If you know of a situation in which the child has particular difficulty using the skill well, please note it briefly in the space marked "Problem situation."

almost never
seldom
sometimes
often
almost always

1 2 3 4 5

1. **Listening:** Does the student appear to listen when someone is speaking and make an effort to understand what is said?

Problem situation:

PARENT CHECKLIST

1. **Listening:** Does your child listen when you or others talk to him/her? 1 2 3 4 5

Comments:

STUDENT CHECKLIST

1. Is it easy for me to listen to someone who is talking to me? 1 2 3 4 5

Skill #1 Listening:
Teacher, parent, &
student rate use
of skill across
various situations

Generalization of Skills Example

Imitation Milestone 10:
Imitates any novel motor action modeled by an adult
with and without objects

LEVEL 2

	Mand	Tact	Listener	VP/MTS	Play	Imitation	Echoic	LRFFC	IV	Group	Ling.
10											
9											
8											
7											
6											

○○○○ ○○○○ ○○○○ ○○○○ ○○○○ ○○○○ ○○○○ ○○○○ ○○○○ ○○○○ ○○○○ ○○○○

Generalization of Skills Example

Mand Milestone 3:

Generalizes 6 mands across 2 people, 2 settings, and 2 different examples of a reinforcer

LEVEL 1

	Mand	er	VP/MTS	Play	Social	Imitation	Echoic	Vocal
5								
4								
3								
2								
1								

Generalization of Skills Example

Demonstrates Transfer
Between the Verbal
Operants Without Training:

Example: Tact → Mand

Transfer Without Training				
1	2	3	4	

VB-MAPP Transition Scoring Form

Child's name:				
Date of birth:				
Age at testing:	1	2	3	4

Key:	Score	Date	Color	Tester
1st test:				
2nd test:				
3rd test:				
4th test:				

	VB-MAPP Milestones Score	VB-MAPP Barriers Score	Negative Behaviors and Instructional Control	Classroom Routines Group Skills	Social Skills and Social Play	Independent Academic Work
5						
4						
3						
2						
1						
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4

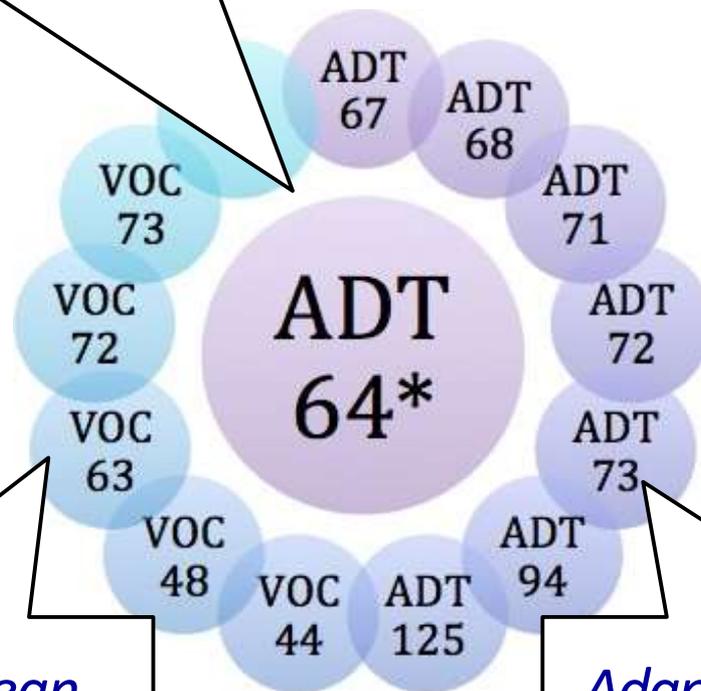
	Generalization	Range of Reinforcers	Rate of Skill Acquisition	Retention of New Skills	Natural Environment Learning	Transfer Without Training
5						
4						
3						
2						
1						
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4

	Adaptability to Change	Spontaneous Behaviors	Self-Directed Leisure Time	General Self-help	Toileting Skills	Eating Skills
5						
4						
3						
2						
1						
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4

Pre-Requisite Skills Example

(Killion, 2003)

**Adaptive Behavior Skills 64:
Regulate water temperature**



*Vocational Skills 63: Clean
food preparation items*

*Adaptive Behavior Skills 73:
Wash and rinse own hair*

Pre-Requisite Skills Example

Impaired Scanning Skills:
Match-to-sample, listener discriminations, and listener responding by feature, function, class require scanning skills

Defective Scanning	
4	
3	
2	
1	
	1 2 3 4

VB-MAPP Barriers Scoring Form

Child's name:				
Date of birth:				
Age at testing:	1	2	3	4

Key:	Score	Date	Color	Tester
1st test:				
2nd test:				
3rd test:				
4th test:				

	Behavior Problems	Instructional Control	Defective Mand	Defective Tact	Defective Echoic	Defective Imitation
4						
3						
2						
1						
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4

	Defective VP-MTS	Defective Listener	Defective Intraverbal	Defective Social Skills	Prompt Dependent	Scrolling
4						
3						
2						
1						
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4

	Defective Scanning	Defective Conditional Discrimination	Failure to Generalize	Weak Motivators	Response Requirement Weakens MO	Reinforcer Dependent
4						
3						
2						
1						
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4

	Self-Stimulation	Defective Articulation	Obsessive-Compulsive Behavior	Hyperactive Behavior	Failure to Make Eye Contact	Sensory Defensiveness
4						
3						
2						
1						
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4

(Sundberg, 2008)

Pre-Requisite Skills Example

(Partington & Mueller, 2012)

Learner: _____

Assessor	Date	Color Code
_____	_____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
_____	_____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
_____	_____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
_____	_____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Assessment of Functional Living Skills Skills Tracking System

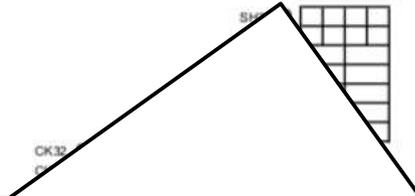
Community Participation Skills

MB41	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB40	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB39	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB38	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB37	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB36	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB35	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB34	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB33	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB32	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB31	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SH48	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SH47	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SH46	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SH45	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SH44	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SH43	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SH42	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SH41	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SH40	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SH39	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SH38	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SH37	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SH36	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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SH33	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SH32	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SH31	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SH30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SA47	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SA46	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SA45	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SA44	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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SA40	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SA39	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SA38	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SA37	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SA36	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SA35	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SA34	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SA33	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SA32	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Shopping 40:
Locates or identifies store departments or service locations

MB12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MB1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CK11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CK10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CK9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CK8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CK7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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CK4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CK3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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CK1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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SH7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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SA6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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SA2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SA1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MB Basic Mobility **CK** Community Knowledge **SH** Shopping **EP** Eat in Public **MO** Money **PH** Phone **TS** Time **SA** Social Awareness & Manners

Pre-Requisite Skills Example

(Partington & Mueller, 2012)

Learner: _____

Assessor	Date	Color Code
_____	_____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
_____	_____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
_____	_____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
_____	_____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Assessment of Functional Living Skills Skills Tracking System School Skills

RE 54	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RE 53	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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RE 51	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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RE 49	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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RE 47	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RE 46	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RE 45	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RE 44	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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RE 38	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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RE 36	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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AA 35	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AA 34	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Applied Academics 4:

Reads and follows simple instructions to do actions

CM 14	<input type="checkbox"/>	MS 13	<input type="checkbox"/>	RE 14	<input type="checkbox"/>	SS 14	<input type="checkbox"/>	TN 13	<input type="checkbox"/>	KC 13	<input type="checkbox"/>	CA 13	<input type="checkbox"/>	AA 13	<input type="checkbox"/>
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CM 1	<input type="checkbox"/>			RE 1	<input type="checkbox"/>	SS 1	<input type="checkbox"/>								

CM Classroom Mechanics
MS Meals at School
RE Routines & Expectations
SS Social Skills
TN Technology
KC Common Knowledge
CA Core Academics
AA Applied Academics

Assessment



**VB-MAPP
Master Scoring Form**

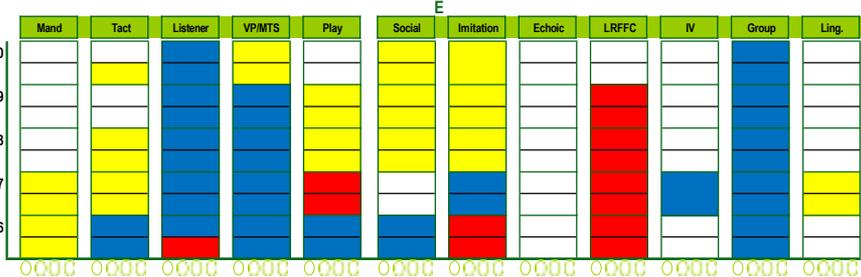
Child's name:	KS			
Date of birth:	11-3-2000			
Age at testing:	1	2	3	4

Key:	Score	Date	Color	Tester
1st test:	41.5	9/1/16	Red	Sk
2nd test:	78	2/17/17	Blue	SK
3rd test:	92.5	2/20/18	Yellow	SK
4th test:				

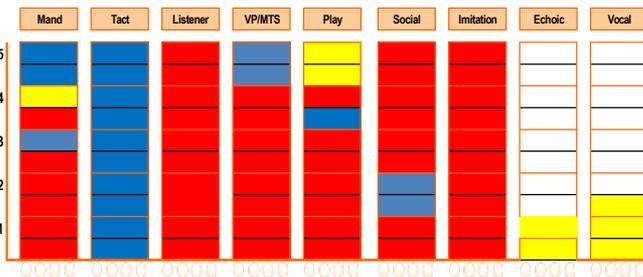
LEVEL 3



LEV L2

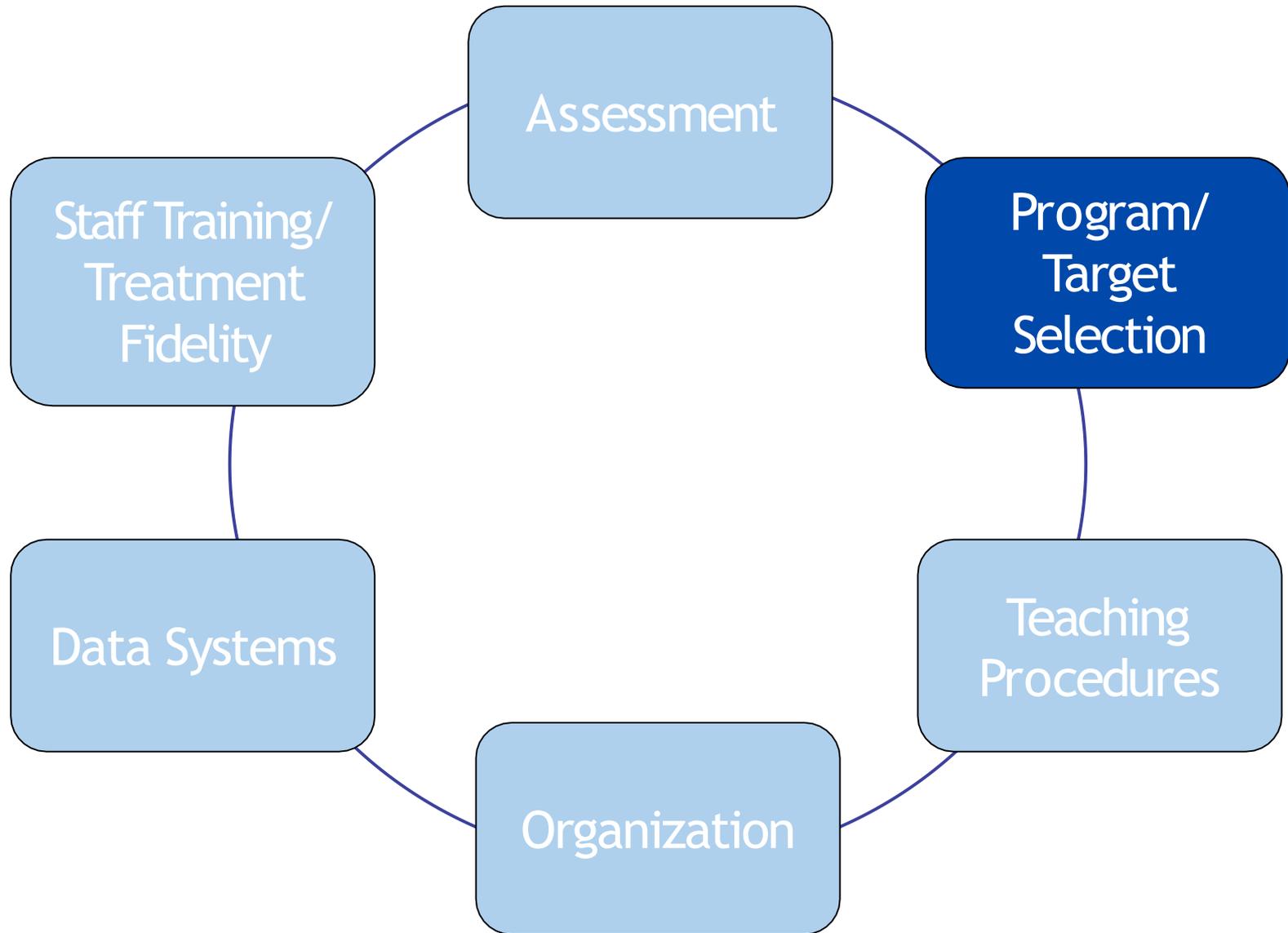


LEVEL 1



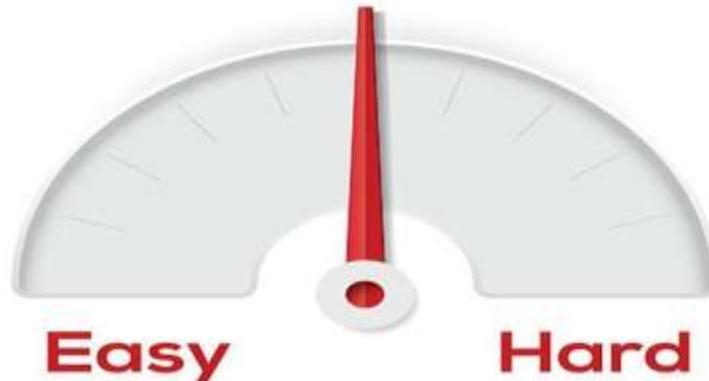
- Generalized imitation repertoire
- Labels items with sign
- Selects items from field with similar stimuli
- Follows multi step directions

An Integrated System of Instruction



Programming

- Teach basic repertoires
- Unite atomic repertoires to teach complex skills
- Sequence of instruction
 - Unite intermediate steps with the end goal



(Lagomarcino, Reid, Ivancic, & Faw, 1984; Dipuglia, 2016)

Teaching Concepts

- Teach concepts
 - Multiple exemplars (full range)
 - Teach critical features
 - Generalized to novel examples
- Teach recombination and novel responding
- Teach students to respond to all relevant stimuli
- Directly teach complex skills
 - E.G. Joint control
 - Sesame Street (2008, September 05). I can remember. Retrieved from https://www.youtube.com/watch?v=MNg9tPXjo&feature=player_embedded#!

Target Selection

- Select targets/ programs that are:
 - Socially significant
 - Relevant
 - Valuable to the student
 - Common in day-to-day life
 - Tied to the general education curriculum
 - Promote and facilitate social initiations/ interactions
 - Promote independence
 - Prerequisite skills

http://www.pattan.net/category/Educational%20Initiatives/Autism/blog/What_should_I_teach_An_Introduction_to_Target_Selection.html

IEP Goals and Objectives

- Align goals with the ultimate target behavior
 - Does the behavior change have generality?
- Examples:
 - Across at least X novel exemplars
 - Across at least X novel situations
 - Across at least X instructors and environments



Target Selection



Filling Orders at Dunkin Donuts

Tact with Sign

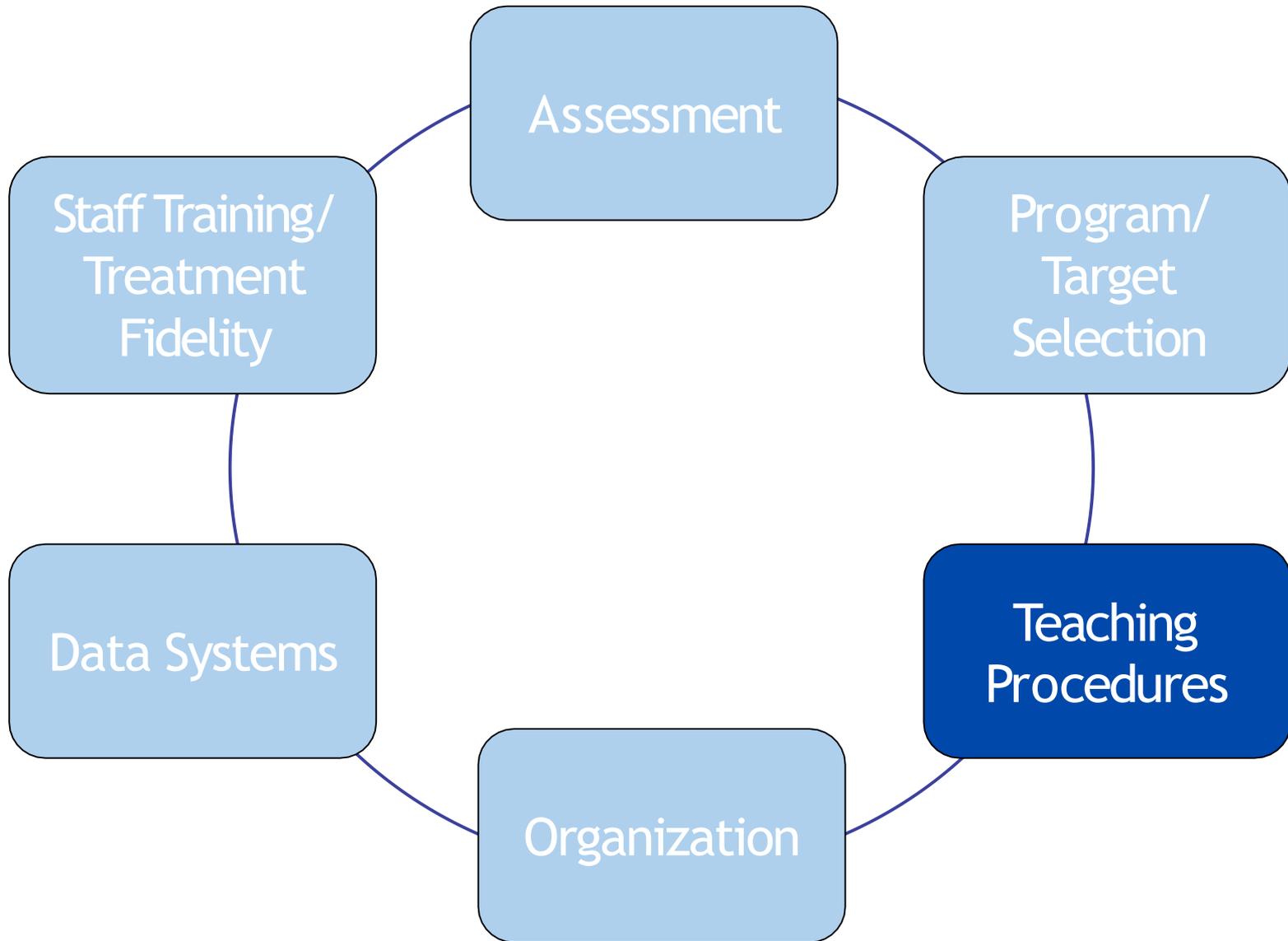
LR Selection with Joint Control

CRA Math

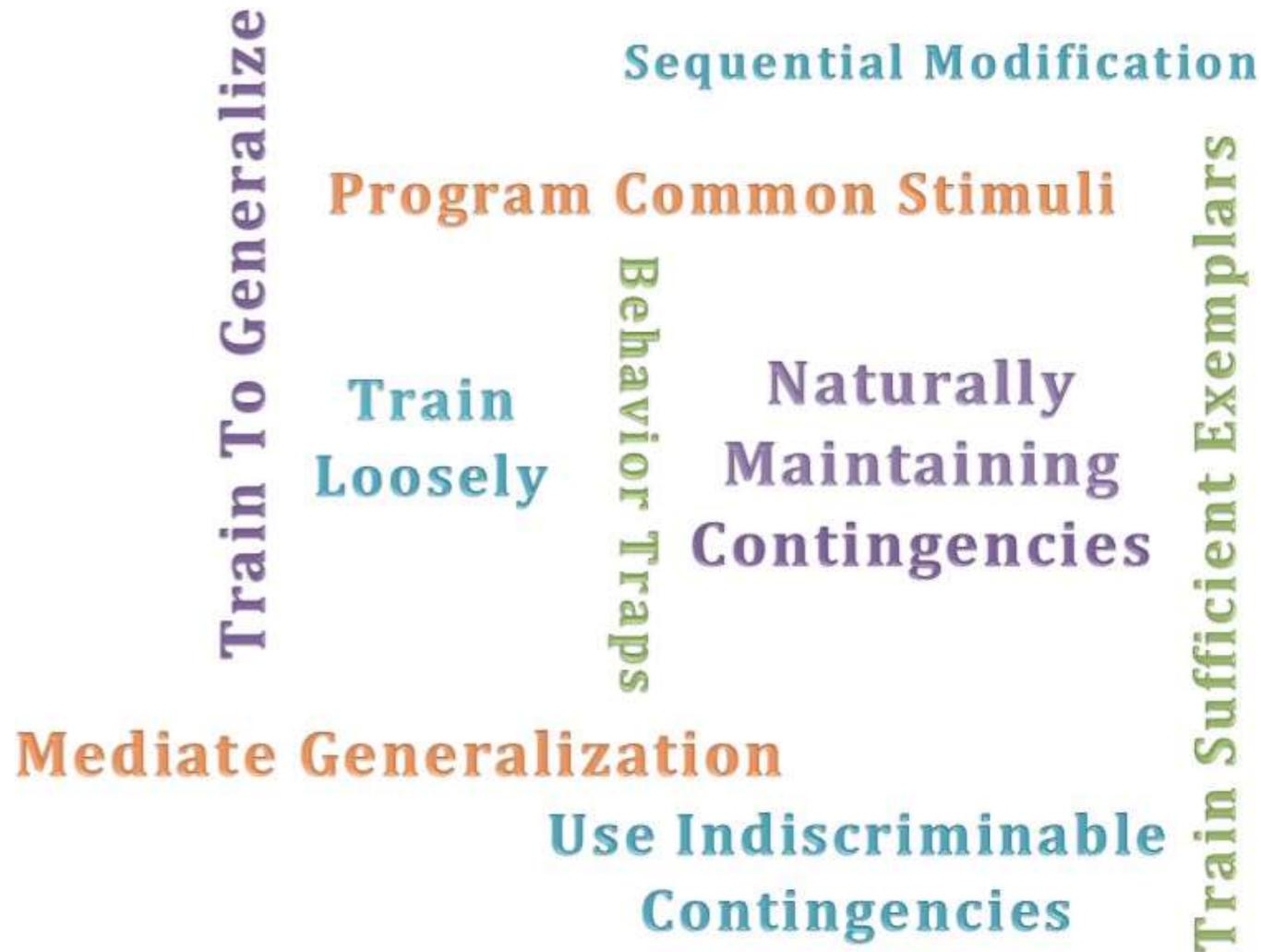
Teacher Interview



An Integrated System of Instruction



Technology of Generalization



LR Selection with Joint Control



Teaching Procedures:

1. Teach Tacts i.e. “sprinkles, cinnabons”
2. Probe LR Selection with new items i.e. “give me sprinkles, chocolate, and cinnabons.”
3. If student is able to do all of the LR Selection above, consider working on the skill of selecting multiple within item (without giving numbers) i.e.: “give me sprinkles, sprinkles, chocolate, and chocolate.”
4. Eventually, teach the concept of # + item “give me 2 sprinkles and 2 cinnabons.”

Actual set of instructions for staff for this particular learner. May differ on learner.

CRA Math



- Concrete | Representational | Abstract
 - Concrete: counting while manipulating items (tact items)
 - Representational: counting while drawing pictures (tact pictures)
 - Abstract: counting while working with symbols only (intraverbals)
- Thousands of basic tacts—across exemplars— builds the groundwork for math-like reasoning
- Subitize = tact quantity **WITHOUT** counting



Teaching Procedures:

TARGET SKILLS 29-33: Tact Various Atypical Dice Pattern (on card)

Show each card individually

STAFF: “How many?” (**Show for about 1-second and then cover/ remove**)

STUDENT: “(Tacts how many)”

TARGET SKILLS 34-38: Tact Various Atypical Dice Pattern (with objects)

Place objects in atypical pattern on desk

STAFF: “How many?” (**Show for about 1-second and then cover/ remove**)

STUDENT: “(Tacts how many)”

TARGET SKILLS 39-43: Tact Dice Pattern (on card) in discrimination

Show each card individually

STAFF: “How many black? (**Show for about 1-second and then cover/ remove**)

STUDENT: “(# of black dots on card)”

TARGET SKILLS 44-48: Tact Dice Pattern (with objects) in discrimination

Show objects in array

STAFF: “How many (1 colored counter)? (**Show for about 1-second and then cover/remove**)

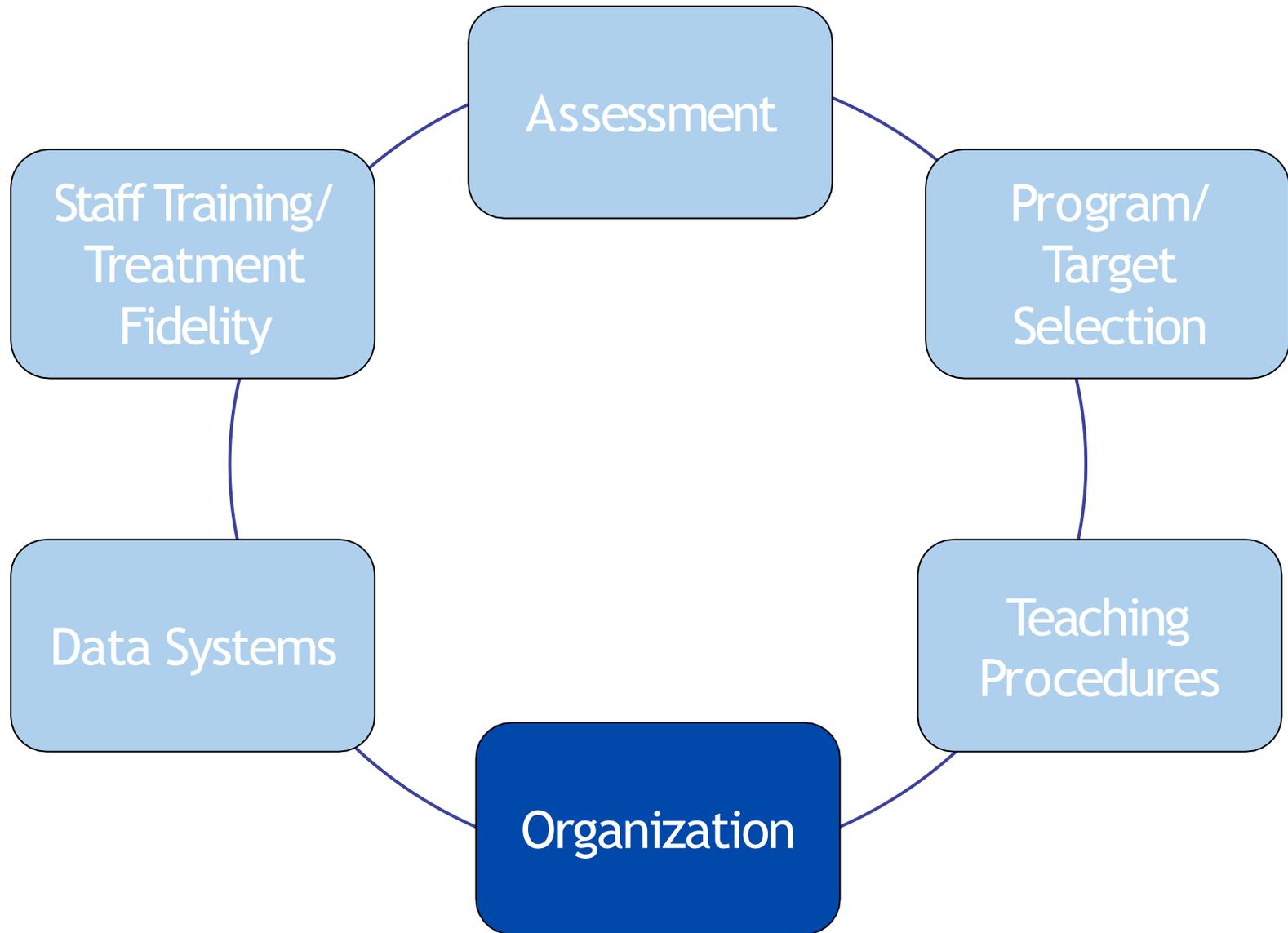
STUDENT: “(# of colored counter)”

If a student begins to point and count each dot, cover the card up.

Student Skills

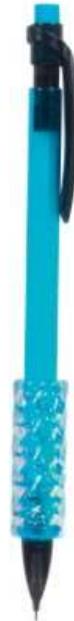


An Integrated System of Instruction



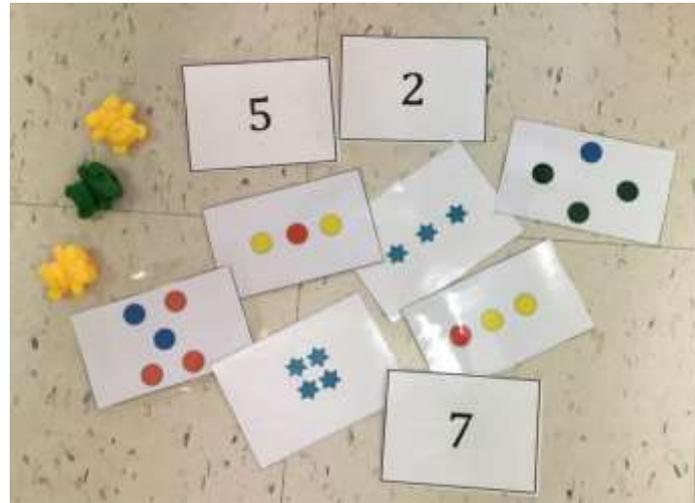
Organization

- Allocation of instruction
 - Schedule DTT and NET
 - Across people, locations, time presented
- Materials organization
 - Common stimuli
 - Multiple exemplars
 - Close in/ far out

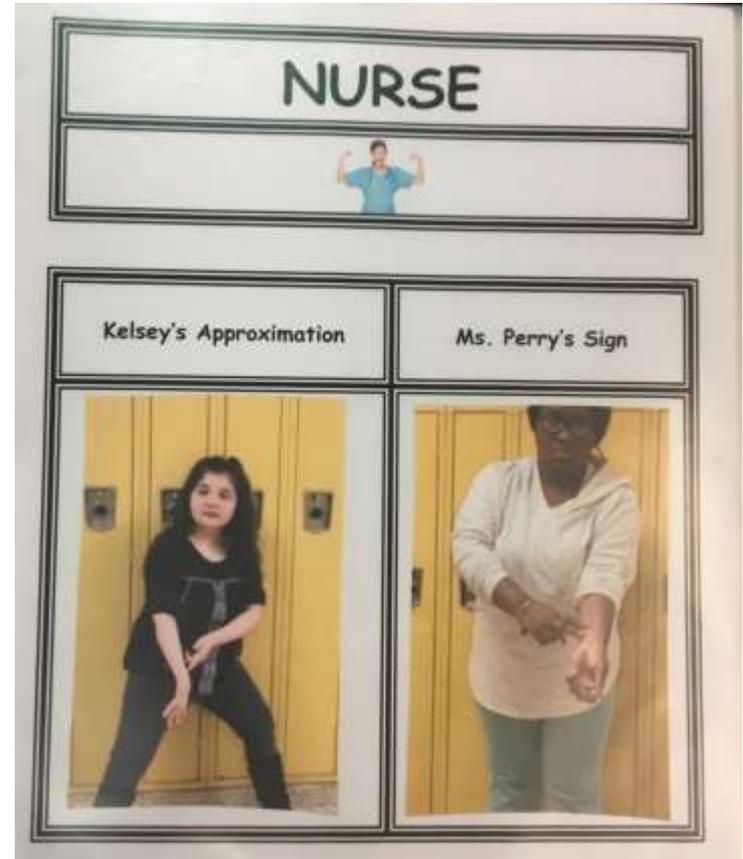
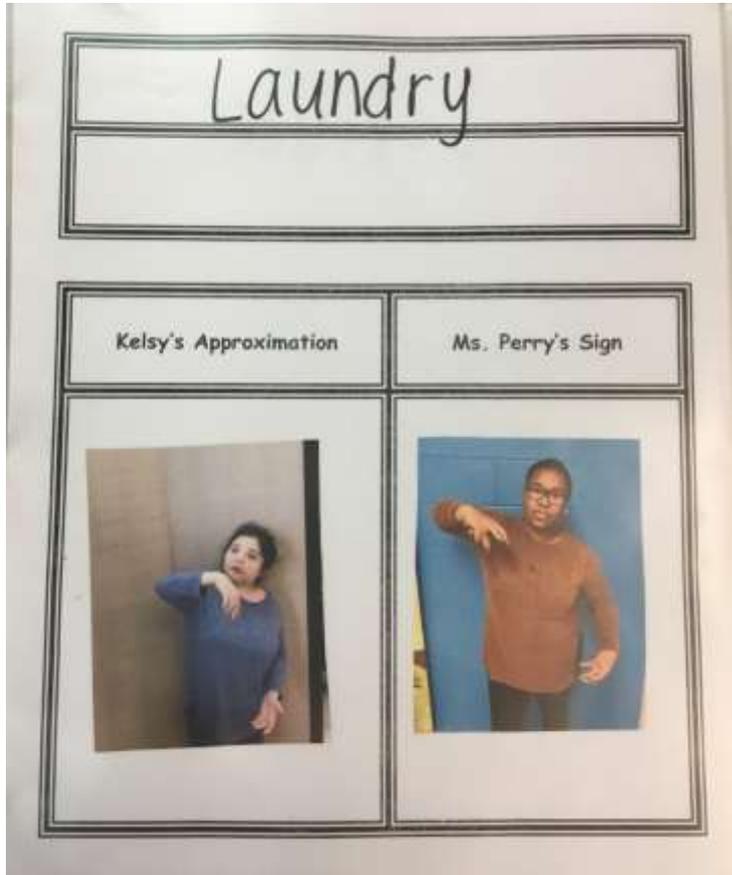


(Stokes & Baer, 1977)

Materials Organization



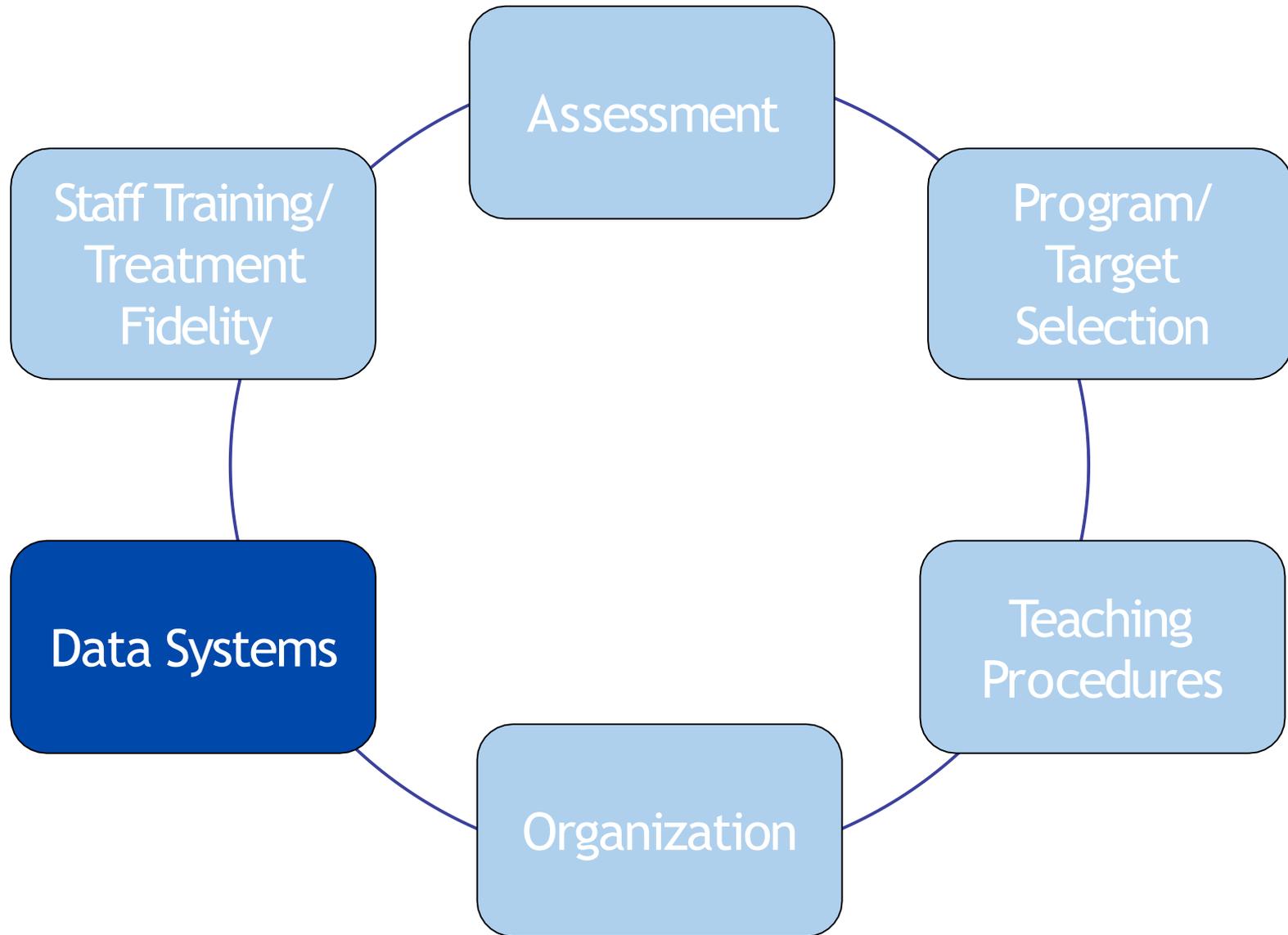
Sign Language Book



Student Skills



An Integrated System of Instruction



Data Systems

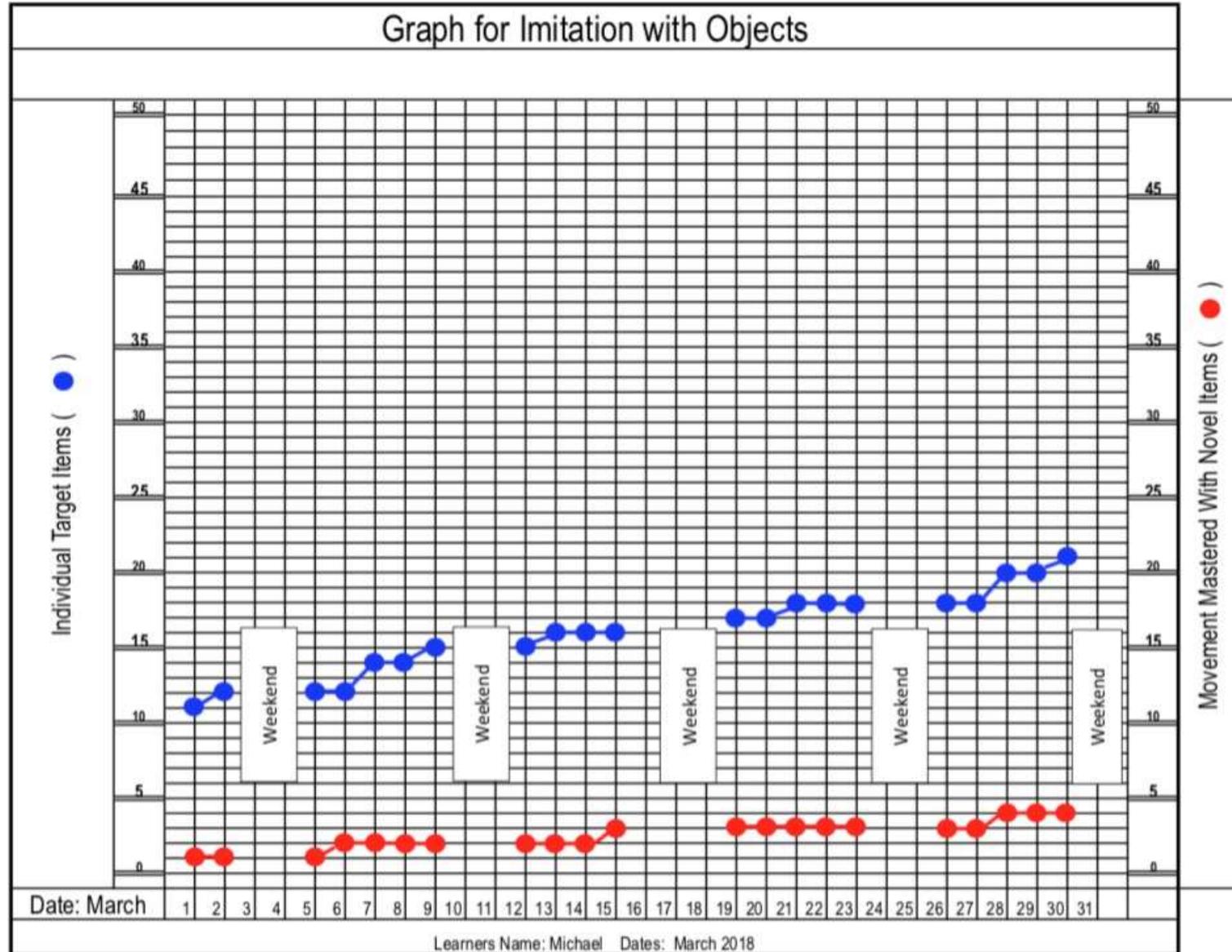
- Data systems should help check for generalization
 - Test examples different from those presented to teach the concept

Skills Tracking Sheet

Student Name: _____ Skill: _____ Mastery Criteria: _____

	Target	Date introduced	Date acquired	Generalization Data										
				Person			Location			Exemplar				
1														
2														

Data Systems



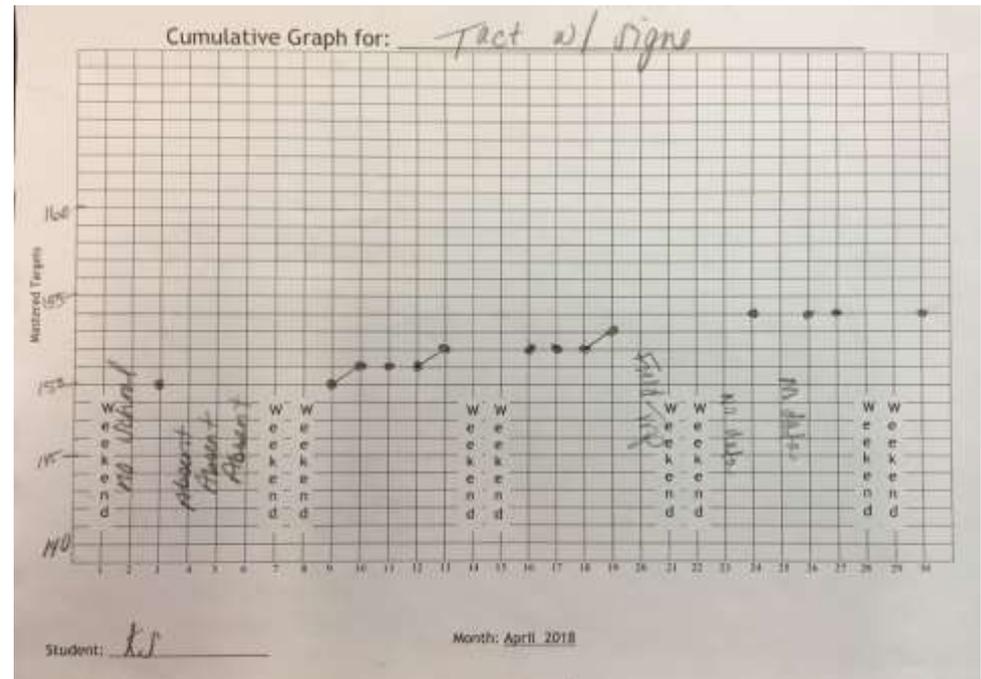
Data Systems: Tact with Sign



Skill Tracking Sheet

Student Name: KS Skill: Tact w/ Signs

	Target	Date introduced	Date Mastered
1	sprinkles donut	2/13/18	2/27/18
2	chocolate donut	1/22/18	1/31/17
3	donut	1/30/18	2/13/18
4	Syrup	4/10/18	4/24/18
5	Bacon donut	4/10/18	4/17/18
6	cinna sugar	2/27/18	3/23/18
7	strawberry donut	4/10/18	4/13/18
8	apple	4/10/18	5/1/18
9	cinna swirl	4/29/18	5/2/18
10	powerade donut	3/23/18	4/10/18
11	Pizza	5/1/18	5/10/18
12	whisk	5/2/18	5/10/18
13	broom	5/14/18	
14	glue	5/14/18	
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			



Data Systems: Joint Control



Skill Tracking Sheet

Student Name: KS Skill: LR: Multiple Step Directions (Joint Control)

	Target	Date introduced	Date Mastered
1	2 items: neat array 10+	1/30/17	2/1/17
2	3 items: neat array 10+	2/1/17	2/6/17
3	4 items: neat array 10+	2/6/17	3/7/17
4	5 items: neat array 10+	3/7/17	5/21/17
5	3 items: messy array 10+	3/21/17	3/28/17
6	4 items: messy array 10+	3/29/17	4/3/17
7	5 items: messy array 10+	4/3/17	4/25/17
8	2 items: messy array 10+, with delay	4/25/17	4/28/17
9	3 items: messy array 10+, with delay	4/28/17	5/18/17
10	4 items: messy array 10+, with delay	5/18/17	5/24/17
11	5 items: messy array 10+, with delay	5/24/17	7/11/17
12	2 items: natural environment	7/4/17	5/3/17
13	3 items: natural environment	7/11/17	7/25/17
14	4 items: natural environment	7/25/17	7/26/17
15	5 items: natural environment	9/10/17	9/13/17
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

Revised 7/4/17

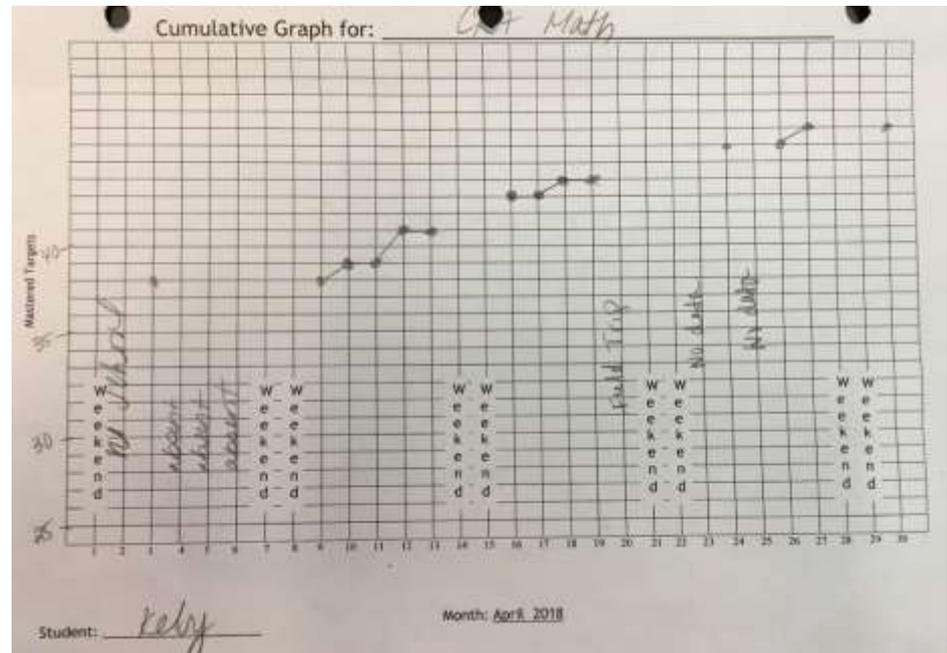
Data Systems: CRA Math



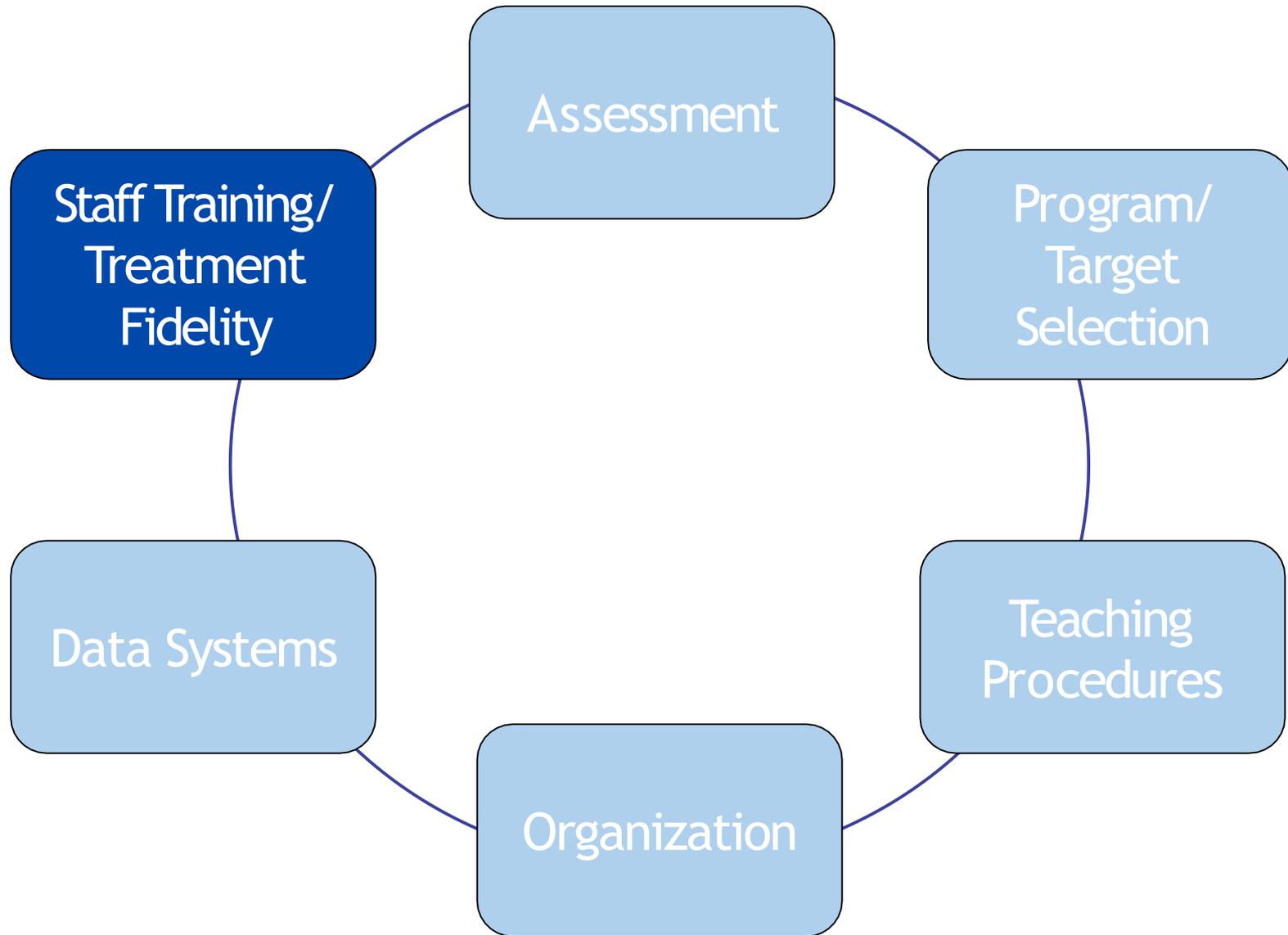
Skill Tracking Sheet **fact - spring**

Student Name: KS Skill: Early Numeracy Skills

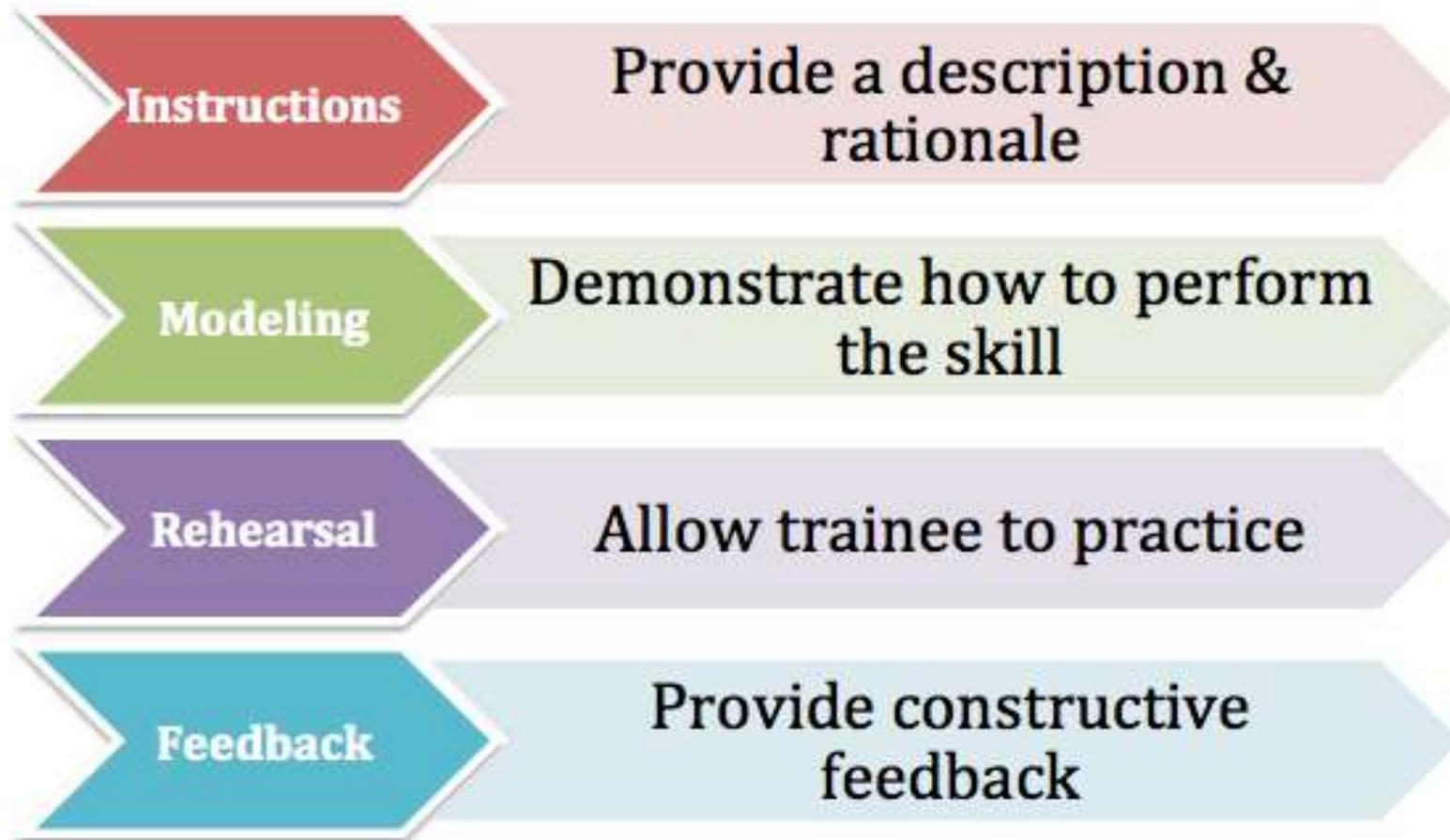
	Target	Date introduced	Date Mastered
1.	Echo: "one"	4/21/17	4/24/17
2.	Echo: "two"	4/24/17	5/01/17
3.	Echo: "two"	5/2/17	5/9/17
4.	Echo: "three"	5/9/17	5/12/17
5.	Echo: "four"	5/12/17	5/17/17
6.	Echo: "five"	5/17/17	5/20/17
7.	Echo: "six"	5/20/17	5/20/17
8.	Echo: "seven"	5/20/17	6/2/17
9.	Echo: "eight"	5/20/17	6/2/17
10.	Echo: "nine"	6/2/17	7/13/17
11.	Echo: "ten"	7/13/17	7/19/17
12.	Fact Typical Dice Pattern (on card or dice) 1	7/19/17	7/25/17
13.	Fact Typical Dice Pattern (on card or dice) 2	7/25/17	9/12/17
14.	Fact Typical Dice Pattern (on card or dice) 3	9/12/17	9/15/17
15.	Fact Typical Dice Pattern (on card or dice) 4	9/15/17	9/19/17
16.	Fact Typical Dice Pattern (on card or dice) 5	9/19/17	9/23/17
17.	Fact Typical Dice Pattern (on card or dice) 6	4/2/18	4/12/18
18.	LR-select Typical Dice Pattern: 1	00	
19.	LR-select Typical Dice Pattern: 2	00	
20.	LR-select Typical Dice Pattern: 3	00	
21.	LR-select Typical Dice Pattern: 4	00	
22.	LR-select Typical Dice Pattern: 5	00	
23.	LR-select Typical Dice Pattern: 6	00	
24.	Build Dice Pattern: 1 <i>2/5/18 - 2/12/18</i>	2/5/18	2/12/18
25.	Build Dice Pattern: 2 <i>2/5/18 - 2/12/18</i>	2/5/18	2/12/18
26.	Build Dice Pattern: 3 <i>2/12/18 - 2/19/18</i>	2/12/18	2/19/18
27.	Build Dice Pattern: 4 <i>2/12/18 - 2/19/18</i>	2/12/18	2/19/18
28.	Build Dice Pattern: 5 <i>2/12/18 - 2/19/18</i>	2/12/18	2/19/18



An Integrated System of Instruction

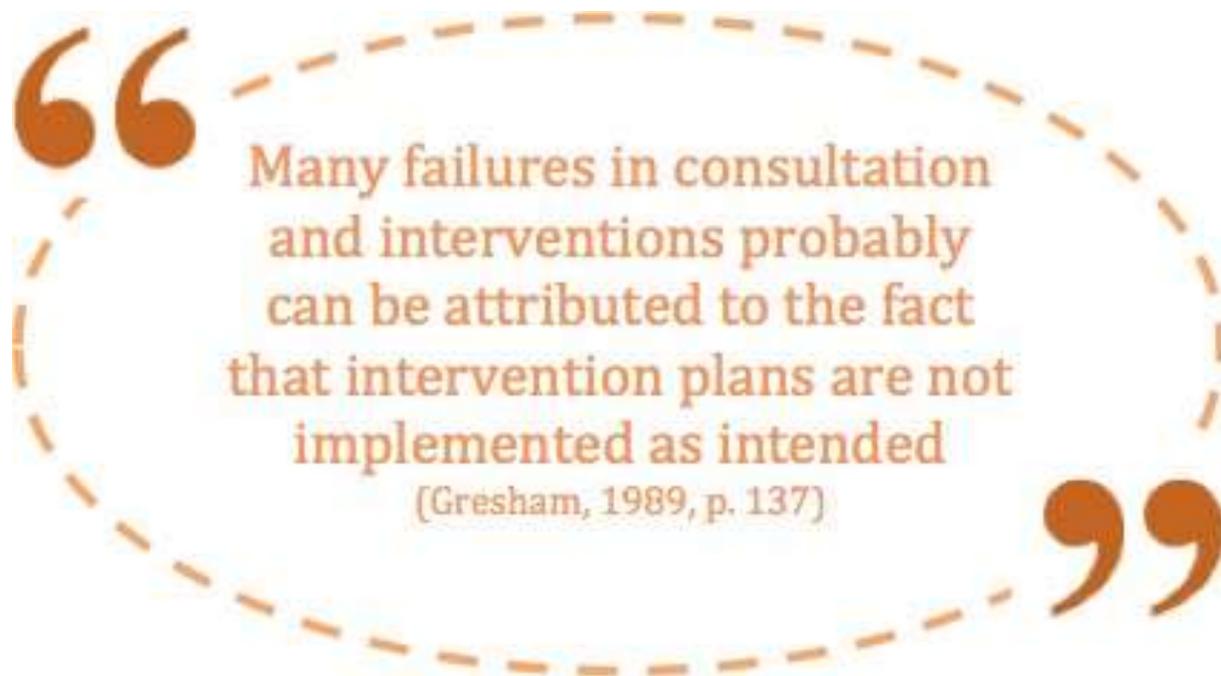


Behavioral Skills Training (BST)



(Parsons, Rollyson, & Reid, 2012)

Staff Training & Treatment Fidelity



GENERALIZATION INTEGRITY CHECKLIST

Leader(s) _____

Group _____ Date(s) of review _____

INSTRUCTIONS: This self-rating checklist is designed to assist group leader(s) in enhancing generalization of student skill learning. While a numerical score is not computed, leader(s) may use this checklist to both plan instruction and evaluate the emphasis placed on generalization following instruction.

Parent Training: Lafasakis & Sturmey, 2007

- Behavior Skills Training
 - Train parents to use DTT
- Increased student correct responding
 - Purple= vocal imitation
 - Green= gross motor imitation

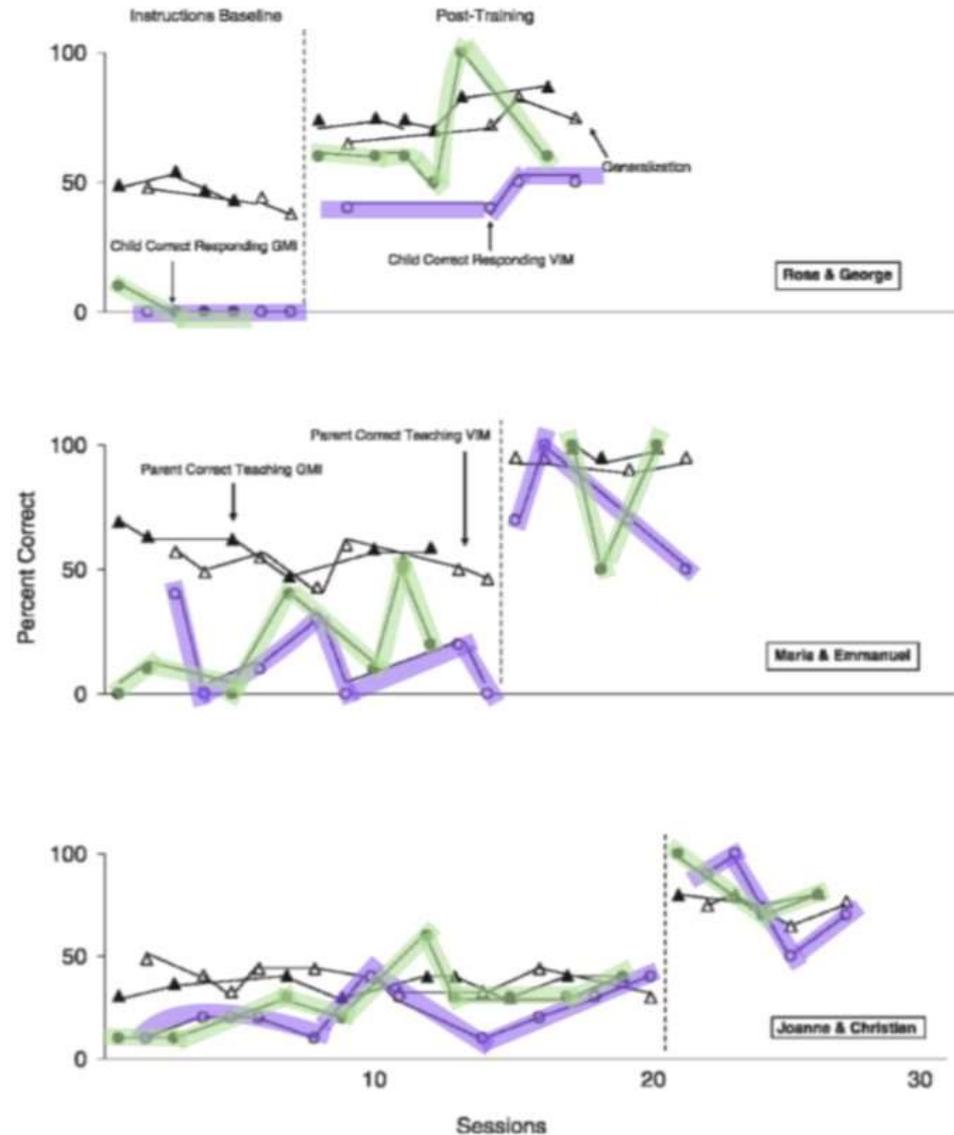


Figure 1. The percentage of correct implementation and generalization of discrete-trial teaching for parents and correct gross-motor and vocal imitative responses for children during instructions baseline and posttraining.

Parent Training & Communication

- Newsletters
- Communication logs
- Videos to send home
- Mini trainings in IEP meetings



Parent Training & Communication

Date: _____

Intensive Teaching	Brief Definition	Sample SD's	Current Targets
Tact	Student labels something they see, hear, smell, taste, or feel and gets non-specific reinforcement (such as praise or toy)	What is this? This is a ____ It's a ____ Tell me what this is What do you see?	
Listener Responding (Receptive)	Following directions and or receptive identification (discrimination). Reinforcement is non-specific.	Point to the ____ Show me the ____ Can you find the ____ Where's the ____? Touch the ____ Give me the ____ Find the ____	
Motor Imitation	Copying someone else's motor movement. Reinforcement is non-specific	"Do This" "Can you do this?" "Try this one" "Do what I do" "You do this"	
Echoic	Repeating (vocally) what someone else says. Reinforcement is non-specific		
Intraverbal	Saying, signing, writing something related to what someone else said or answering questions (fill-in responses, word associations, conversation). Reinforcement is non-specific	Which one do you ____ with? You ____ with a ____ Something you ____ is a ____ Tell me the one that has ____ The (animal) says ____ What does the (animal) say?	

Manding - Requesting	Brief definition	Current Targets
	Asking for something you are motivated for (student gets reinforced with what they asked for)	

Parent Training & Communication

What can I do at home? - Tacting

- Opportunities for tacting should be built into your child's everyday life.
- You can help your child generalize the mastered tacts by asking them to label items in their natural environment (home, restaurants, playgrounds, stores, etc.).
- You should vary the way you present the question:
 - Tell me what you see
 - This is a _____
 - It's a _____
 - What's this?
 - Tell me what this is
- If your child makes an error, be sure to provide him with the correct response. Ideally, re-present the question so the child can respond correctly.
- Remember to REINFORCE your child for correct responses!!



ClassDojo

Staff Training: BST



- Instruction
 - Description/rationale
- Modeling
 - Modeled in person and took video @ January consult
- Rehearsal
 - Learner practiced skill in-vivo
 - Treatment fidelity

Feedback ...Next Page

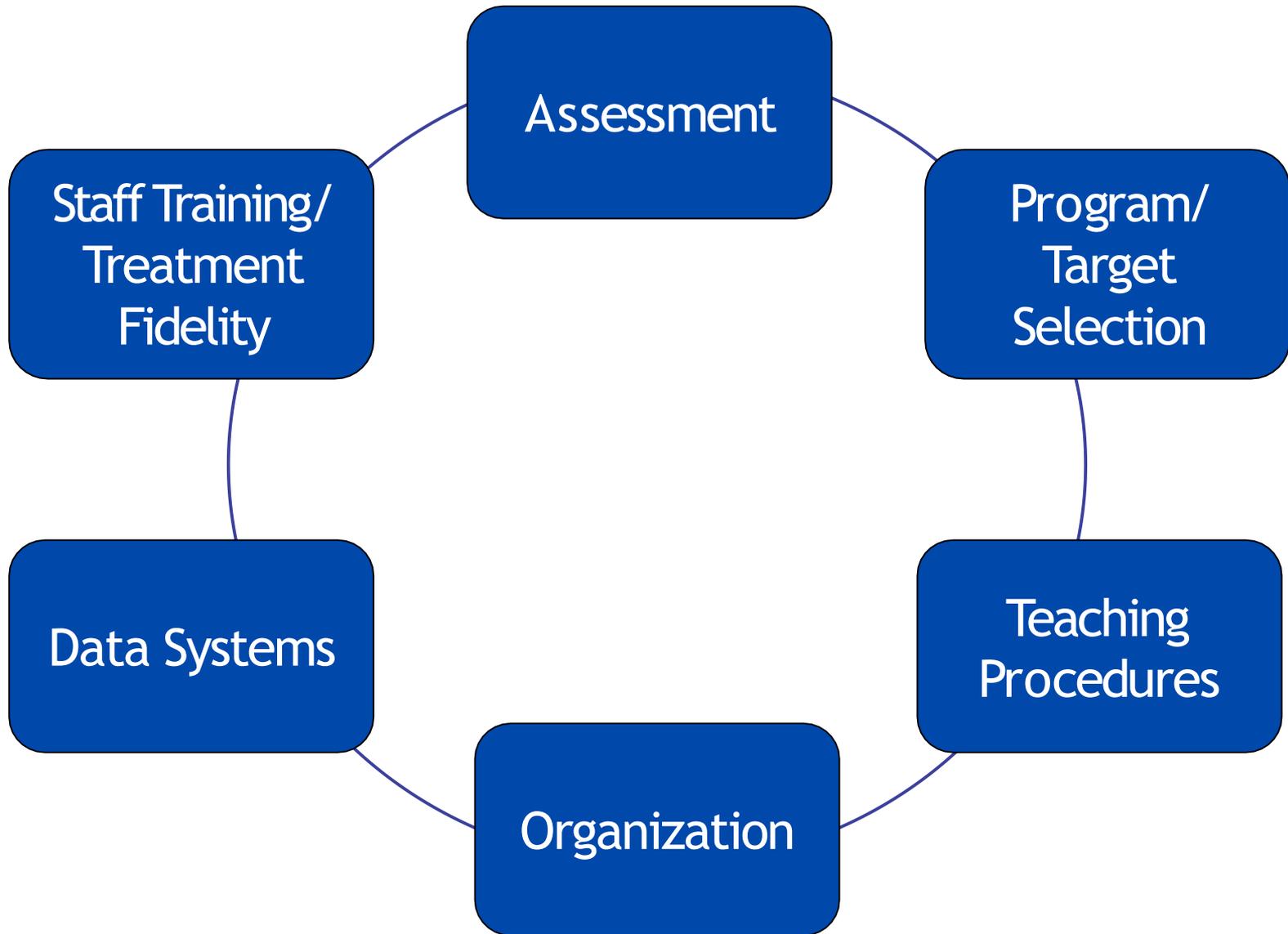
Staff Training: Feedback April Consult



4/13/2018; staff assistant & student			
TEACHING LR SELECTING MULTIPLE PICTURES Procedural Fidelity Checklist	YES	NO	N/A
Is the instructional area neat and sanitized?	X		
Does the instructor have all materials needed for instruction organized and ready?	X		
Does the instructor have a variety of valuable reinforcers available?		X	
Were baseline data collected to determine the initial target?			X
Was a skill sequence developed and listed on the skill-tracking sheet?			X
After a target is mastered, does the instructor probe the next target?			X
Does the instructor collect cold probe data on the first trial of the day?			X
Does the instructor present known pictures in an array?	X		
Does the instructor direct the student to select a different set of known pictures for each trial?	X		
Does the instructor look at the student without providing additional prompts (e.g. making facial expressions, nodding head, looking at pictures)?	X		
Does the instructor keep his/her hand out for 2-3 seconds after the student gives the last picture?	X		
Does the instructor use a 2 second time delay for cold probe and known trials?			X
Does the instructor use a 0 second delay prompt for the teaching target using the echoic rehearsal joint control procedure?	X		
If an error occurs, does the instructor end the trial, represent the S ⁰ and prompt with a 0 second time delay using the echoic rehearsal joint control procedure?	X		
For error correction and errorless teaching, does the instructor continue to have the student rehearse the echoic until responding is strong?	X		
Percentage of Y's:	9/10		
	90%		

- Feedback
 - Increase motivation during instructional times
 - Isolate a reinforcer
 - Variety of different reinforcers
 - Build some behavior momentum

An Integrated System of Instruction



Some Additional Examples...



Early Learner: Imitation Skills



- Imitation Skills in Context
 - Bathroom
 - Self-care

Name: Cora

Active Site	Task	M	T	W	Th	F
1	Open drawers	0	Y	Y	Y	Y
2	Wipe toothpaste	0	Y	Y	Y	Y
3	Wet toothbrush	0	Y	Y	Y	Y
4	Squeeze soap (water out)	1	Y	Y	Y	Y
5	Fill bowl	1	Y	Y	Y	Y
6	Open cabinet	0	Y	Y	Y	Y
7	Open microwave door	0	Y	Y	Y	Y
8	Squeeze soap onto rag	0	Y	Y	Y	Y
9	Wipe spot microwave	0	Y	Y	Y	Y
10	Put out dryer filter	0	Y	Y	Y	Y
11	Clean dryer filter	0	Y	Y	Y	Y

Criteria for mastery: consistent yes, rarely responses that occur without prompts should be considered correct(s)

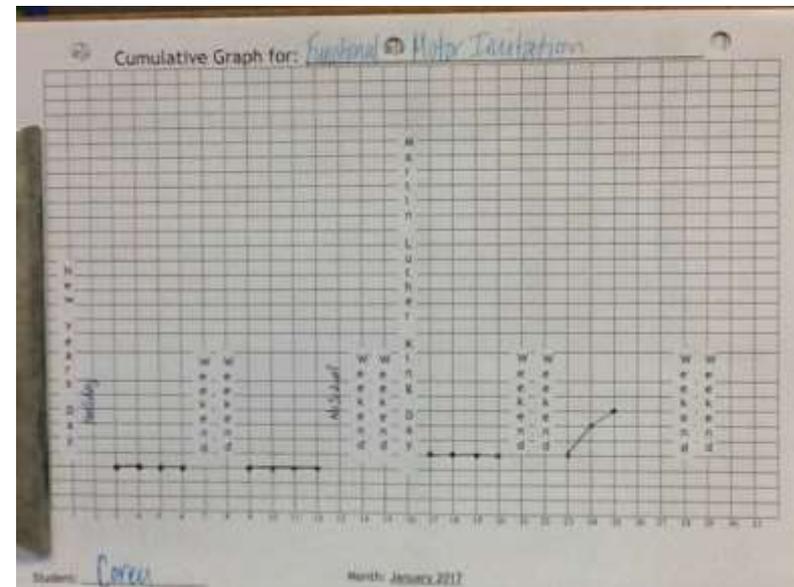
Mand Data

ITEM	Initial Response	Prompts	M	T	W	Th	F
Wipe down with soap	Y	Y	Y	Y	Y	Y	Y
Wipe down with soap	Y	Y	Y	Y	Y	Y	Y
Wipe down with soap	Y	Y	Y	Y	Y	Y	Y
Wipe down with soap	Y	Y	Y	Y	Y	Y	Y

Criteria for Mastery: consistent yes

Mand Frequency Data:

Item	M	T	W	Th	F
Wipe down with soap	1	1	1	1	1
Wipe down with soap	1	1	1	1	1
Wipe down with soap	1	1	1	1	1
Wipe down with soap	1	1	1	1	1



Discrete Trial Teaching

- LR multiple selection with joint control procedures



Natural Environment Learning



- Classroom

Jobs

- Snack Prep
- Snack Facilitator

	Monday	Tuesday	Wednesday	Thursday	Friday
UA	Change Cycle Day	Snack Prep Change Cycle Day	Snack Change Cycle Day	Change Cycle Day	Snack Change Cycle Day
AG	Snack	NET book (match topic)	NET book (match topic)	Snack	NET book (match topic)
MP	Calendar	Snack Calendar	Snack Prep Calendar	Calendar	Snack Prep Calendar
WB	Snack prep	Sharpen pencils	Snack Prep	Sharpen Pencils	Sharpen Pencils

Vocational Learning



- Woodshop to Etsy Shop



Manding

- Mand for Items and Actions



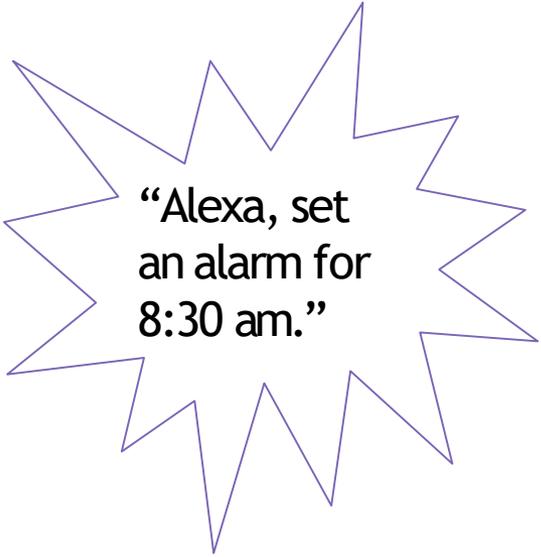
Alexa Echo Dot Ideas



“Alexa, roll the dice!”



“Alexa, tell me a knock, knock joke!”



“Alexa, set an alarm for 8:30 am.”



“Alexa, spell *summer.*”



“Alexa, play red light, green light.”

Barriers to Implementation

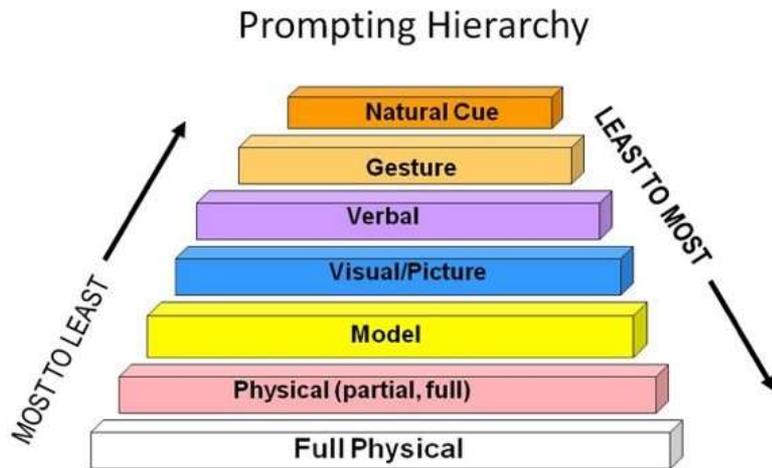


Prerequisite Skills

- Pre-teaching relevant components
 - Tact
 - LR
 - Echoic
 - Imitation
 - Intraverbal
 - Textual



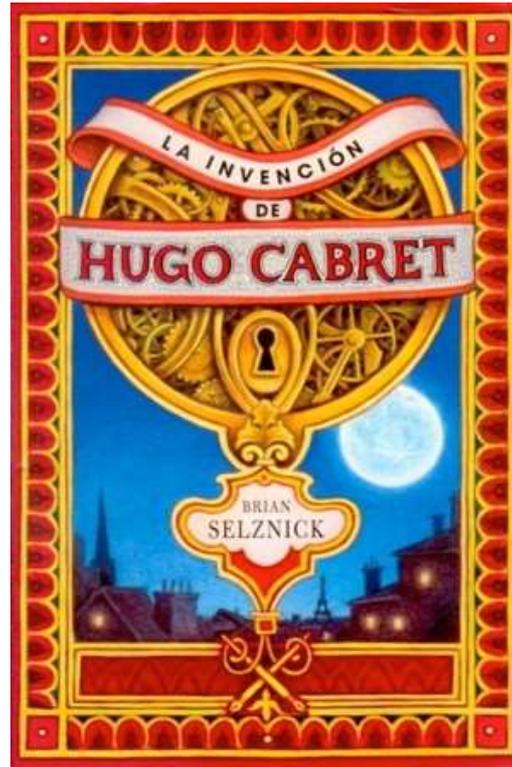
Fading Prompts



- Discuss selecting the level of prompt that is right for the student
- Discuss prompt fading judiciously

Not Enough Exemplars

How many tacts do you need to read this book?



Not Enough Exemplars

“Inferences matter because writers omit a good deal of what they mean.”



“For example, take a simple sentence pair like this: ‘I can’t convince my boys that their beds aren’t trampolines. The building manager is pressuring us to move to the ground floor.’ To understand this brief text the reader must infer:

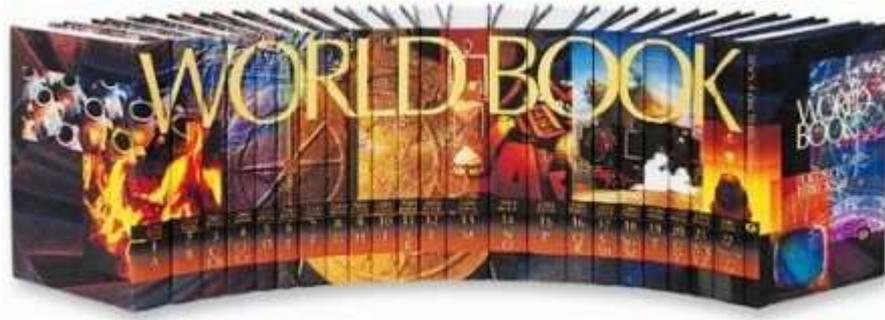
- Jumping would be noisy for downstairs neighbors
- Neighbors complained about it
- Building manager is motivated to satisfy the neighbors
- No one would hear the noise if family lived on the ground floor.”

Mastery to Novel



- Setting criteria apriori to include generalization and novel responses
- Making the whole team aware and taking age into consideration; quality of life
- Creating a culture of generalization

Relevance



Does anybody use a World Book Encyclopedia?

- Teaching to the relevance
- 7 Dimensions: **Applied**, Analytic, Behavioral, Conceptually Systematic, Effective, Generality, & Technological

Environmental Competition

- Other competing factors that make completion of a task a challenge
 - Time
 - Effort
 - Staffing numbers
 - School/community climate
 - Admin support



Staff & Admin Training

- Teachers: Special Ed, Gen Ed
- Educational Staff: Paraeducator, RBT, TSS
- Professional Staff: SLP, PT, OT
- Administration: Principals, Supervisors, Directors
- Procedural drift: In her work on false memory, Elizabeth Loftus suggests memory is constructed and reconstructed

Insufficient Reinforcement



Ethical Considerations

1.01 Reliance on Scientific Knowledge

- Conceptually systematic
 - Interventions consistent with principles demonstrated in literature
- Technological
 - Procedures described clearly & concisely
 - Others can implement accurately



Ethical Considerations

2.09 Treatment/ Intervention Efficacy

- Effective
 - Interventions are monitored for impact on behavior
- Analytic
 - Decisions are data based
- Behavioral
 - Observable
 - Measurable

Ethical Considerations

4.03 Individualized Behavior-Change Programs

- Applied
 - Socially significant behaviors selected
- Generality
 - Behavior occurs in environments other than where taught



Cultural Awareness

Client

- Understand effects of environment
- Identify cultural values & contingencies
- Select socially meaningful goals and targets

Practitioner

- Consider values & preferences
- Seek educational & training experiences
- Evaluate biases & effects on relationship



(Fong, Catagnus, Brodhead, Quigley, & Field, 2016)

Start with the End in Mind

- Start with the end in mind
 - Harry Potter Warner Bros Entertainment (2011, November 11) A Conversation between JK Rowling and Daniel Radcliffe. Retrieved from: <https://www.youtube.com/watch?v=7BdVHWz1DPU> (@ 24min mark)



Word Cloud Activity



What word comes to mind when you hear: **GENERALIZATION**



Respond at [PollEv.com/nac129](https://www.poll-ev.com/nac129)



Text **NAC129** to **22333** once to join, then text your message

Thank You!

This presentation would not have been made possible without the following dedicated people:

Kim Booz, Carolyn Snyder, Nicole Verbos, Colleen Levinson, Roseanna Fabii, Alessandra Wynne, Maria Overturf, Steve Kowal, TaQuisha Perry, Students in Downingtown School District, Students in Great Valley School District, and Students in West Chester School District

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Contact Information

www.pattan.net

Rebekah Houck

c-RHouck@pattan.net



Amy Naccarelli

c-ANaccarelli@pattan.net

Commonwealth of Pennsylvania

Tom Wolf, Governor