

IMPLEMENTING AAC SYSTEMS IN SCHOOLS: MOVING BEYOND BARRIERS WITH EVIDENCE-BASED PRACTICE

Jennifer Schubring, M.S., CCC-SLP

Building AAC, LLC, Owner

Green Bay Area Public Schools, Assistive Technology Program Support



SPEAKER DISCLOSURES

Jennifer Schubring has no Financial or Non-Financial Relationships to disclose. The speaker is being contracted by DPI for this presentation.

- About me:
 - Currently employed part-time by the Green Bay Area Public Schools the 4th largest district in Wisconsin with over 21,000 students.
 - Began a private practice: Building AAC, LLC in May 2018 as there were no local therapy practices within a two-hour distance that filled this niche.
 - I've specialized in AAC since first starting college. Worked at the Communication Aids and Systems Clinic (CASC) at the Waisman Center at UW-Madison as an undergrad. Graduated from Penn State in 2005. Had a graduate assistantship to work with Dr. Janice Light.
 - Have worked in the schools focusing on AAC for over 12 school years.



LEARNING OBJECTIVES

- Learning Objective 1: As a result of attending & participating in this session, the participant will be able to list 2 Evidence-Based
 Practices widely used in AAC
- Learning Objective 2: As a result of attending & participating in this session, the participant will be able to name at least one implementation driver and one technical resource that they can use in their district to drive change.
- Learning Objective 3: As a result of attending & participating in this session, the participant will be able to name at least one stage of implementation and identify possible team members and training needed to begin implementation of evidence-based practices with an identified student(s) or team(s).



BACKCHANNEL CHAT



It can be intimidating to ask questions. During the presentation you can participate in a "Backchannel Chat" which is an anonymous way of asking your questions.

Go to: https://padlet.com/BuildingAAC/DPIQuestions

If you have the same question, just click on the heart next to the question and I will answer the questions with the most hearts first. If we don't have time at the end of presentation, I will go back and answer as many questions as I can, so check back in a few days for answers!

WWW.SLIDO.COM → #6562



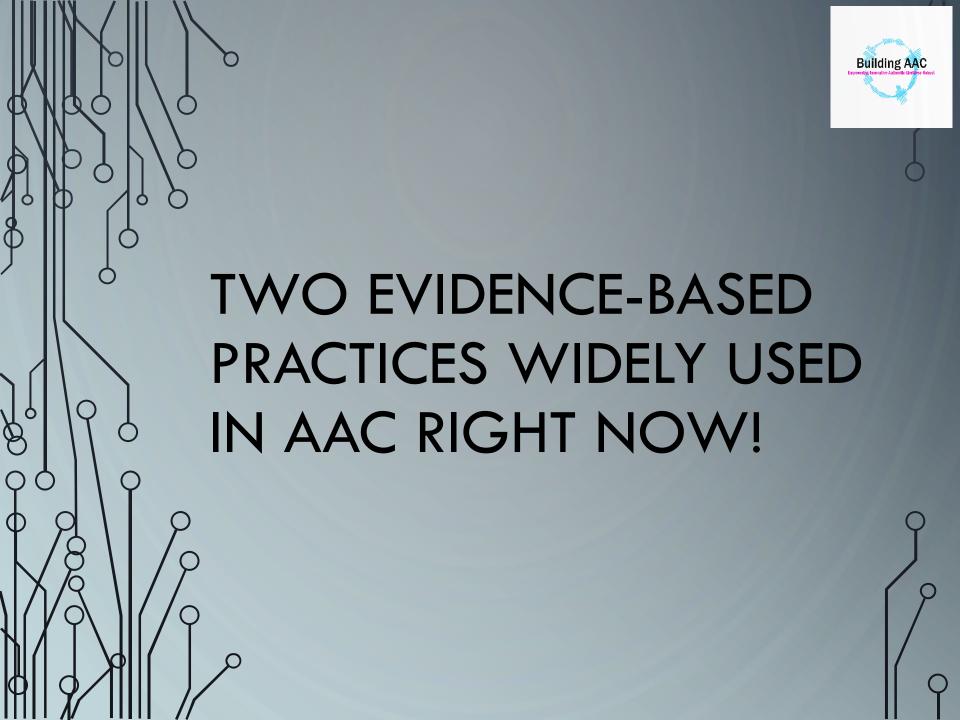
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Building AAC
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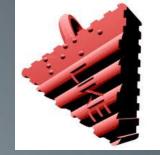
WE HAVE DISCOVERED INCREASINGLY THAT COMMUNICATION HAS ONLY ONE PREREQUISITE; IT HAS NOTHING TO DO WITH MENTAL AGE, CHRONOLOGICAL AGE, PREREQUISITE SKILLS, MATHEMATICAL FORMULAE, OR ANY OF THE OTHER MODELS THAT HAVE BEEN DEVELOPED TO DECIDE WHO IS AN AAC CANDIDATE AND WHO IS NOT. BREATHING IS THE ONLY PREREQUISITE THAT IS RELEVANT TO COMMUNICATION. BREATHING EQUALS LIFE, AND LIFE EQUALS **COMMUNICATION.** IT IS THAT SIMPLE.

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CORE VOCABULARY

What is Core Vocabulary?



A small set of words that are used frequently in communication across contexts and purposes

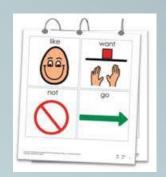
- 50 words account for 40-50% of what we say
- 100 words account for 60% of what we say
- 230-333 words make up 80% of what we say

(Beukelman, Jones, & Rowan, 1989; Marvin, Beukelman,

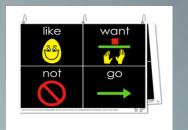
Togher, 2007)



(pictures of various core vocabulary boards)



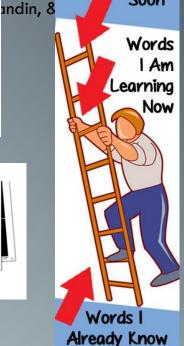
| what | when 8 | where | ABC 123 | TANK TANK | ? | across . | SOCIAL O O | PLACES | тни | Tig. | griss gris |
|-------------|-----------|------------|------------|--------------|------------|------------|---------------|-----------|------------|-------------|---------------|
| 1 | me Q | who | again A | please | 100 | now | teday | time | P | happy | sad (9) |
| 0 | am | to | be | reality | feel 0 | give | listen | okay | tired | bad (5)2 | good |
| it | is are | will | come | hurt Q | hear 40 | know | that | | the | and | more |
| you 0.0 | can | eat B | drink | finish | get | love | make 94 | need | all 97a | at | some |
| your 0.0 | do | 90 | help | open | put | say (3) | • | show O | of | for | on O |
| here | have | like | play | read | stop | talk @@ | walk | wish | in Lud | up 1 | off |
| yes © | X | want G: | take | tell (E) | turn | watch | wear | work | out | down. | with |





Core Word Learning: I Need Access to:

Words You Will Be Teaching Me Soon





CORE VOCABULARY VS. FRINGE VOCABULARY

Core words:

- A core vocabulary is comprised of the words that are used most commonly in the expressive communication (Yorkston, et al., 1988).
- Small in size
- Varies little across individuals and environments

Fringe Vocabulary:

- the vocabulary we use to communicate about specific topics in specific environments (e.g. scissors, paper, and marker for art class; fork, drink, and napkin for meal time).
- Purpose: adding personalization to AAC systems
- commonly these words are nouns







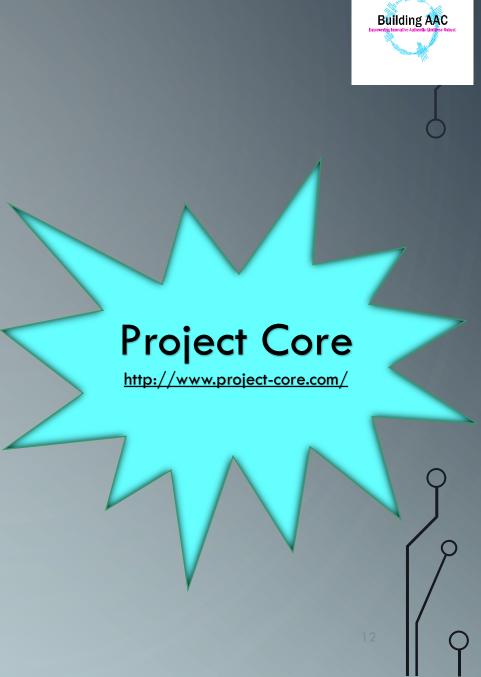


WHAT IS CORE VOCABULARY?

- Determined by looking at language samples from typically developing kids.
- Banajee, DiCarlo, and Stricklin (2003) looked at the expressive vocabulary of 50 children between the ages of 24-36 months enrolled in daycare
 - Results: a total of 23 words account for 96% of their words → none
 of which were nouns
 - Results (in order of frequency of use): I, no, yes/yea, my, the, want, is, it, that, a, go, mine, you, what, on, in, here, more, out, off, some, help, all done/finished

DETERMINING CORE VOCABULARY

- Unfortunately there was no research looking at academic core vocabulary
 - DLM Core Vocabulary project
 was initiated to determine the
 vocabulary that was needed
 for students with significant
 cognitive disabilities to
 demonstrate learned academic
 knowledge—in response to
 the Common Core State
 Standards. (Dennis, Erickson,
 & Hatch, 2013)





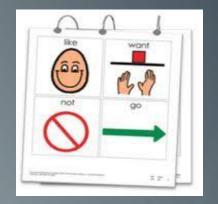
- Building AAC
 Exposerise Insertine Address Unifices Releast
- Goal: to determine the vocabulare needed to engage, learn, and demonstrate knowledge in an academic environment.
- · Goal: identify & prioritize the smallest set of required words
- Expectations: students will understand more words than just the DLM Core Vocabulary. This much larger receptive vocabulary will include all of the fringe words they encounter in academic contexts across the school day.
 - The DLM Assessment will utilize the identified academic core vocabulary when writing questions and responses.
 - o In theory, if we work on teaching these words to students they should do better on DLM assessments and academically.



DLM'sTM "First 40"

| 1. | I | like | not | want |
|-----|-------|----------|------|-----------|
| 2. | help | it | more | different |
| 3. | who | she | you | he |
| 4. | where | up | on | in |
| 5. | me | make | get | look |
| 6. | what | need | are | is |
| 7. | some | put | all | this |
| 8. | don't | that | go | do |
| 9. | when | finished | can | here |
| 10. | open | turn | stop | over |

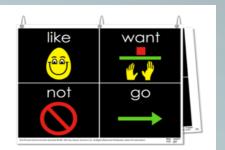






Center for Literacy & Disability Studies

University of North Carolina at Chapel Hill







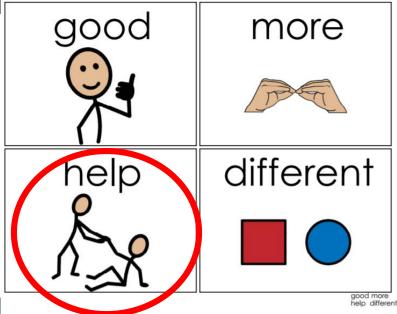


COMMON CORE STATE STANDARDS & DLM ESSENTIAL ELEMENTS



First Grade English Language Arts Standards: Speaking and Listening

| CCSS Grade-Level Standards | DLM Essential Elements | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| Comprehension and Collaboration. | | | | | | | | |
| SL.1.1 Participate in collaborative conversations with liverse partners about grade 1 topics and texts with leers and adults in small and larger groups. a. Follow agreed-upon rules for discussions (e.g., listening to others with care, speaking one at a time about the topics and texts under discussion). b. Build on others' talk in conversations by responding to the comments of others through multiple exchanges. c. Ask questions to clear up any confusion about the topics and texts under discussion. | EE.SL.1.1 Participate in conversations with adults. a. Engage in multiple-turn exchanges with supportive adults. b. Build on comments or topics initiated by an adult c. Uses one or two words to ask questions related to personally relevant topics. | | | | | | | |
| SL.1.2 Ask and answer questions about key details in a ext read aloud or information presented orally or prough other media. | EE.SL.1.2 During shared reading activities, answer questions about details presented orally or through other media. | | | | | | | |
| SL.1.3 Ask and answer questions about what a peaker says in order to gather additional information r clarify something that is not understood. | EE.SL.1.3 Communicate confusion or lack of understanding ("I don't know."). | | | | | | | |



| | Priority | | Essential | | | | | | |
|------|----------|-----------------|------------|------------|-----------|------------|----------|---------|---------|
| | Score | AAC Core | DLMEE | DLMEE | DLMEE | DLMEE | ccss | ccss | ccss |
| more | 247 | 1 | EE.SL.K.3 | EE.L.K.5.b | EE.RI.1.4 | EE.L.4.1.d | L.K.5.b | RL.1.9 | L.1.1.h |
| you | 228 | 1 | EE.L.1.1 | EE.L.4.1 | EE.L.6.1 | | RF.K.3.c | L.1.1.d | |
| i | 228 | 1 | EE.L.1.1 | EE.L.6.1 | | | RF.K.3.c | L.1.1.d | |
| help | 223 | 1 | EE.SL.K.3 | EE.L.K.5.d | EE.RI.1.4 | EE.SL.1.3 | RF.K.3.c | L.K.1.b | |
| want | 216 | 1 | EE.L.K.5.d | EE.L.4.4 | | | RF.K.3.c | L.K.1.b | |
| go | 209 | 1 | EE.L.K.5.b | EE.L.K.5.d | EE.L.4.4 | | RF.K.3.c | L.K.1.b | L.K.5.b |





Project Core

A Stepping-Up Technology Implementation Grant Directed by the Center for Literacy and Disability Studies, UNC Chapel Hill

https://youtu.be/yq9Qelg6ZaQ



CORE VOCABULARY RESOURCES

- Project Core:
 - 1. Professional Development Modules
 - a) Self-directed independent learning
 - b) Facilitated group learning (modules for your use when training others
 - 2. Universal Core Communication Systems with selection tool
 - a) 3-D symbols
 - b) 4 square universal core book
 - c) 4 square in-line partner assisted book
 - d) 4 corner eye gaze book
 - e) 9 location universal core book
 - f) 36 location universal core board & classroom poster
 - 3. Teaching supports & Implementation Resources
 - a) Program Implementation Guide for Coaches
 - b) School or Program Administrator Guide
 - c) Instructional planning guides and reflection tools
 - 4. Research Support and Publications



Today is National

Make a ROOM.



(search for "A year of core words" or a specific Month such as "December")

A Year of Core Words Example -

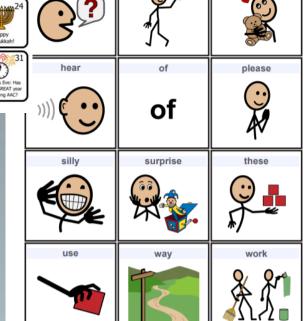
Book Suggestion: Polar Bear, Polar Bear, What do you Hear?



Go OUTSIDE and enjoy the first day

Created by Rachael Langley, MA, CCC-SLP ~ 2016 ~ rlangley@eatonresa.org

December Core Words







HOW DO WE DECIDE WHAT TO TEACH: **CORE WORD PLANNERS?**

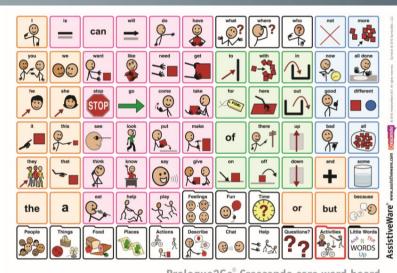


Assistiveware Core Word Classroom (will need to create a free account)

Core word Displays: English, Spanish, French, Dutch

Core Word Classroom: Blog post explaining the core word classroom.

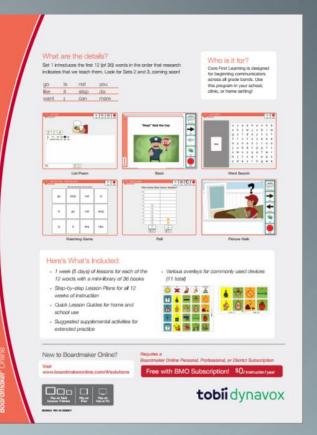
- Not a curriculum
- Resources to adapt existing lesson plans















HOW DO WE TEACH CORE VOCABULARY?





AIDED LANGUAGE STIMULATION

Typically developing children

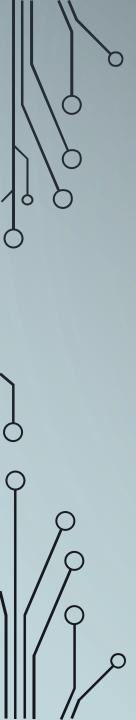
- Hear 4,000-6,000 words per day for their first year of life before they even communicate a single word.
- Then they hear 4,000-6,000 words per day for their second year before they start putting together two-word combinations.

By 18 months babies have heard 4,380 hours of spoken language and we don't expect them to be fluent speakers, yet.

If AAC learners only see symbols modeled for communication twice weekly for 20-30 minutes, it will take **84 years** for them to have the same exposure to aided language as an 18 month old has to spoken language.

Statistic from Jane Korsen-QIAT Listserv 2011











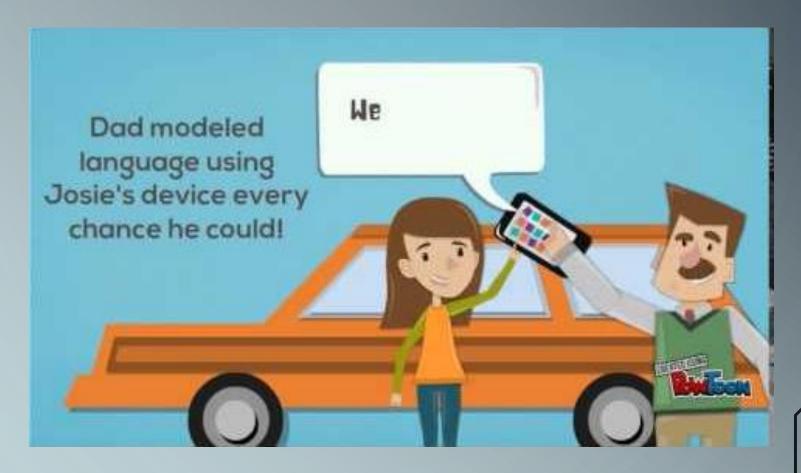
Teaching and Modeling Vocabulary



- Teaching and modeling are critical to learning.
 - Teach the words.
 - Teach the symbols.
- Modeling
 - Model the use of the Universal Core throughout the school day.
 - Focus on building receptive understanding of the words and symbols before expecting students to use them.
 - · Create multiple display and take advantage of peers.
 - Model key words
 - Expand by modeling one more word
 - Model a variety of pragmatic functions



AIDED LANGUAGE STIMULATION



https://youtu.be/fIFNMky22-U



MHA WODERS

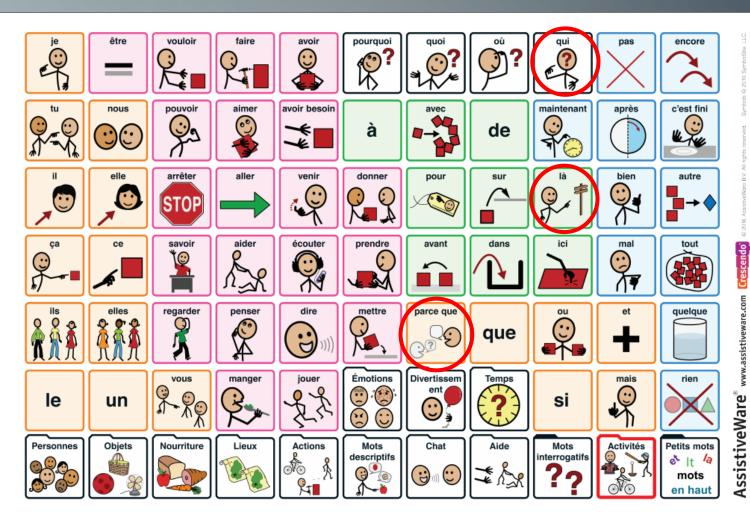


Tableau de vocabulaire de base de Proloquo2Go® Crescendo



VIDEO EXAMPLES OF MODELING

Book reading

Aided Language in play

Cariboo

Core Vocabulary Poster in the

Classroom







- Students DO NOT require continuous prompting and structured practice in order to learn language (Romski & Sevcik, 2006)
- Students DO require many meaningful opportunities to use in natural settings (i.e., embedded in the events of the day).

Repetition with variety is key!



BUILDING AAC: OUR BELIEFS



Things we believe to be true:

- There are no prerequisites for AAC NJC supports this!
- Communication is multi-model
- AAC does not hinder the development of verbal speech
- We should be implementing interventions that are evidence-based:
 - Aided language stimulation/input
 - Picture Exchange Communication System (PECS)
 - NOT RPM/FC
- A little bit of core goes a long way!
- Teach a variety of communicative functions
 - There's more to life than cookies! Janice Light
- Make learning meaningful
- Goal is always SNUG
- Use a prompting hierarchy
- There's something to be said for motor planning
- Presume competence/presume potential





BUILDING AAC - THE MYTHS!

- We also mostly agree on the common myths of AAC:
 - Practical AAC: https://praacticalaac.org/praactical/aac-myth-buster-wrap-up/
 - Tobii Dynavox: https://www.tobiidynavox.com/en-us/learn/what-is-aac/common-questions/
 - Speak for Yourself:
 https://www.speakforyourself.org/uncategorized/myth-augmentative-alternative-communication-aac-pre-requisite-skills/
 - Speech Science:
 http://www.speechscience.org/aac/2017/8/25/aac-101-myths-and-misconceptions-part-4
 - NJC: https://www.asha.org/uploadedFiles/Debunking-Myths-About-AAC-Adults-With-IDD.pdf

SO, IF WE AGREE ON SO MUCH...

WHY DO WE CONTINUE TO STRUGGLE TO GET SCHOOL **TEAMS TO** FOLLOW THROUGH WITH IMPLEMENTATION?

DO's and DON'Ts of AAC

- Do use the AAC system to talk yourself
- X Don't expect the AAC user to communicate without you modelling

V Do aim high

- X Don't demand prerequisite skills
- Do use a well designed, comprehensive vocabulary e.g. core vocabulary or PODD
- X Don't provide an AAC system with only a handful of choices
- Do provide enough wait time
- X Don't do all the talking
- Do ask open ended questions
- X Don't ask questions the AAC user knows you already know the answer to
- Do focus on key words when modelling
- X Don't think you need to always model grammatically complete sentences
- Do respect multi-modal communication
- X Don't say "And now say it on your talker"
- Do allow exploration and access to the whole vocabulary
- X Don't create custom pages for specific activities
- Do make sure AAC is available all day, every day
- X Don't limit access to the AAC system
- Do describe what you want to say using core words
- X Don't focus on adding lots ofvocabulary

Learn more: www.assistiveware.com/aac-do-dont

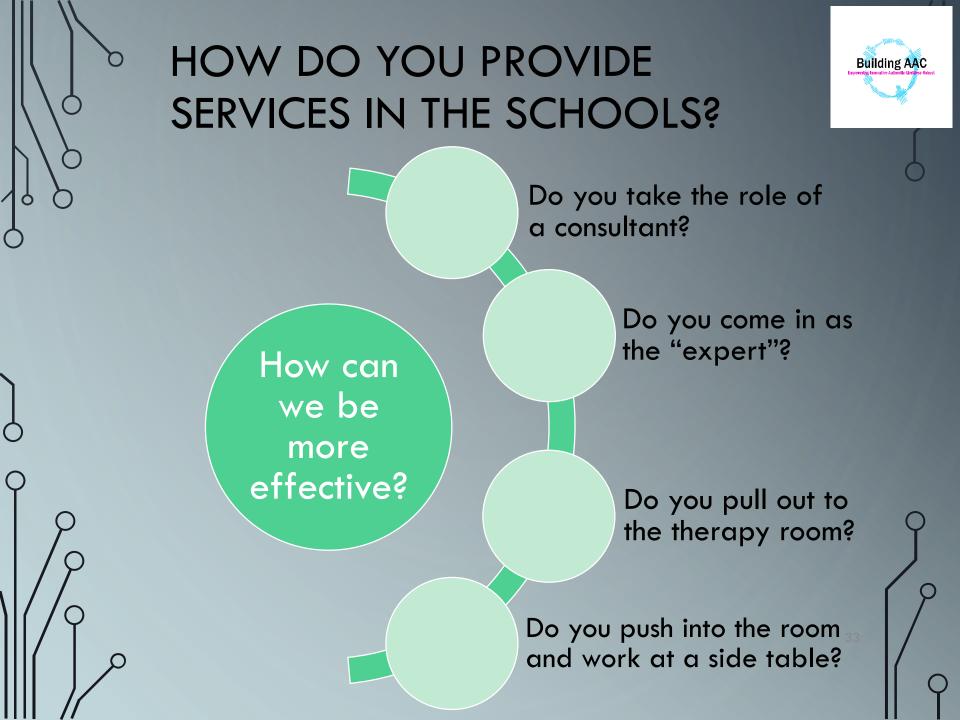












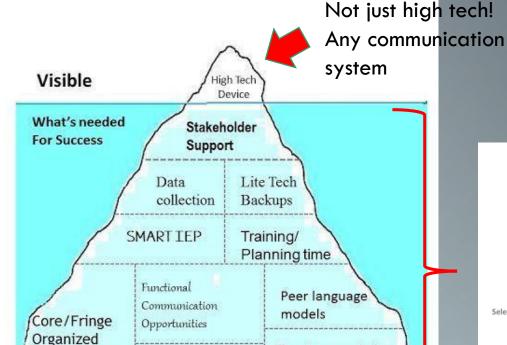
IMPLEMENTATION — DRIVERS TO FOSTER SUCCESSFUL USE OF AAC

Teacher modeling-

Aided Language

Stimulation





Reliable Benefits Consistent Uses of Innovations Performance Assessment Coaching Intervention Facilitative Training Administration Integrated & Compensatory **Decision Support** Selection Data System **Leadership Drivers** Adaptive © Fixsen & Blase, 2008

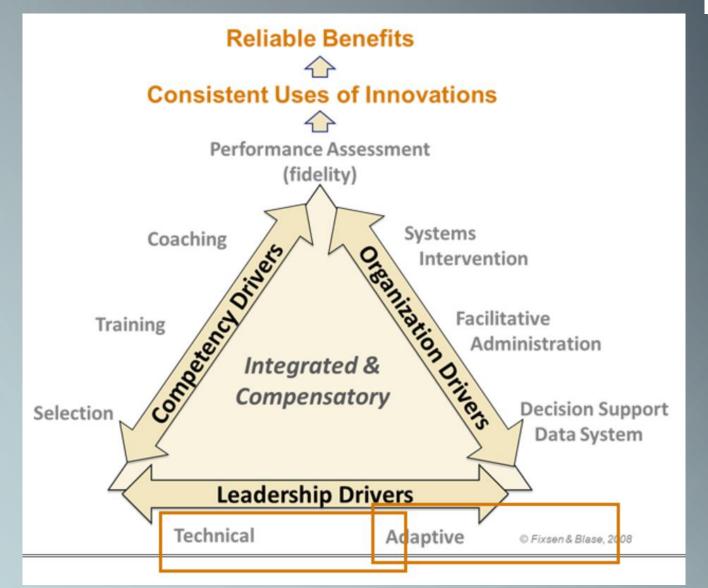
Image by Ruth Morgan; Use but please credit Modified by Jennifer Schubring MS CCC-SLP

Room for growth

Systematically

IMPLEMENTATION DRIVERS: TECHNICAL VS. ADAPTIVE CHANGES







TECHNICAL VS. ADAPTIVE CHANGES

Technical

- Things that we generally have agreement on and are NOT controversial.
- Can be a process that is well laid out
- Usually set forth by leadership.
 - What are some examples of technical changes?
 - Set process for qualifying for S/L services outlined by DPI
 - Process for qualifying for Special Education services – new guidelines and any changes come from DPI.
 - We know that access to AAC does not hinder speech development.
 - ASHA outlines Technical guidelines
 - Use of Facilitated Communication (FC)
 - Use of Rapid Prompting Method (RPM)

Adaptive

- Our beliefs, values, prior knowledge, and current ways of doing things that we may need to revise
- Requires transformative learning and changes in perceptions
 - What are some examples of adaptive changes?
 - Imagine a teacher who has been an ABA line therapist what kind of prior knowledge and ideas are they bringing with them that may color their opinion when implementing something new?



ASHA'S TECHNICAL DOCUMENTS FOR AAC



 National Joint Committee for the Communication Needs of Persons with Severe Disabilities (NJC)





ASHA'S TECHNICAL DOCUMENTS FOR AAC

Building AAC

Copyonedia Investice Addition to Order

- Access to Services and Support Technical Document
 - What does it tell us?
- In recent years, many state and local education agencies have instituted more restrictive eligibility criteria for speech-language services (ASHA, 2000). However, narrowing eligibility solely on the basis of categorical factors, such as diagnosis or mental age, violates the Individuals With Disabilities Education Act (IDEA) Amendments of 1997, which explicitly require that services be based on individual student needs that affect participation and progress in the general curriculum and extracurricular and other nonacademic activities.
- We can use these technical documents and policies to influence and inform administration



Building AAC
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- Access to Services and Support Technical Document
 - What does it tell us?
 - Eligibility determinations based on a priori criteria violate recommended practice principles by precluding consideration of individual needs. These a priori criteria include, but are not limited to: (a) discrepancies between cognitive and communication functioning; (b) chronological age; (c) diagnosis; (d) absence of cognitive or other skills purported to be prerequisites; (e) failure to benefit from previous communication services and supports;
 - We can use these technical documents and policies to influence and inform administration



BETWEEN THE SAYING AND THE DOING IS THE SEA.



77

Italian Proverb







ADAPTIVE CHANGES AND THEIR AFFECT ON AAC







BELIEF - A DEFINITION





belief noun

be·lief | \ bə-ˈlēf ◆ \

Definition of belief

- 1 : a state or habit of mind in which trust or confidence is placed in some person or thing
 - // her belief in God
 - // a belief in democracy
 - // I bought the table in the belief that it was an antique.
 - // contrary to popular belief
- 2 : something that is accepted, considered to be true, or held as an opinion : something believed
 - // an individual's religious or political beliefs
 - especially: a tenet or body of tenets held by a group
 - // the beliefs of the Catholic Church
- conviction of the truth of some statement or the reality of some being or phenomenon especially when based on examination of evidence
 belief in the validity of scientific statements



A FEW QUOTES ABOUT BELIEFS...

- Have convictions. Be friendly. Stick to your beliefs as they stick to theirs. Work as hard as they do.
 - -Eleanor Roosevelt
- I am a fierce patriot, and I try to be outspoken about my beliefs
 - -Martha Plimpton
- Change will come slowly, across generations, because old beliefs die hard even when demonstrably false.
 - -E.O. Wilson

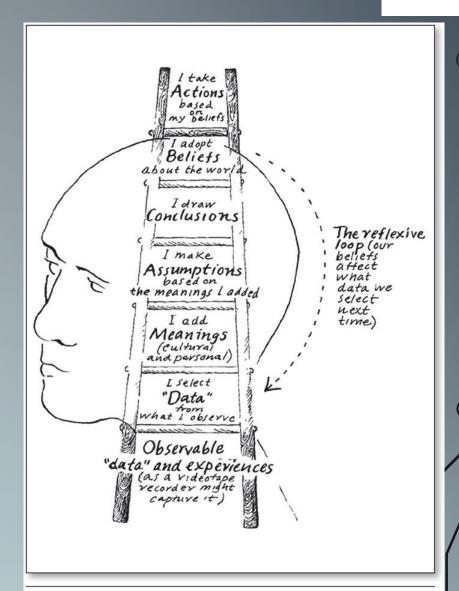


WHERE DO BELIEFS COME FROM?

The Ladder of Influence

- Actions
- Beliefs
- Conclusions
- Assumptions
- Added Meaning
- Selected data
- Observable data and experiences

Chris Argyris (1990), Senge, P. (1994)



Source: Ladder of Inference, by Chris Argyris, as shown in Senge, Kleiner, Roberts, Ross, and Smith (1994).



A FEW MORE QUOTES ABOUT BELIEFS...

 Remember, we see the world not as it is but as we are. Most of us see through the eyes or our fears and our limiting beliefs and our false assumptions.

-Robin S. Sharma

We tend to accept information that confirms our prior beliefs and ignore
or discredit information that does not. This confirmation bias settles over
our eyes like distorting spectacles for everything we look at.

-Kyle Hill

Is this why "presuming competence" is such a hard concept to get people to buy into? When we change it to "presuming potential" does that make it easier for us to fit into our belief system?

IMPLEMENTATION • What does the NJC say about selection? **DRIVERS:** BUILDING COMPETENCY

Reliable Benefits **Consistent Uses of Innovations** Performance Assessment (fidelity) Systems Coaching Intervention Facilitative Training Administration Integrated & **Compensatory Decision Support** Selection Data System **Leadership Drivers** Technical Adaptive © Fixsen & Blase, 2008

Staff selection:

THROUGH

SELECTION

- selection of practitioners,
- selection of organization staff (trainers, coaches, evaluators, administrators), and
- selection of staff for Implementation Teams

- - Teams must included:
 - 1. At least one individual with expertise in language understanding and use, communication disorders, and AAC strategies.

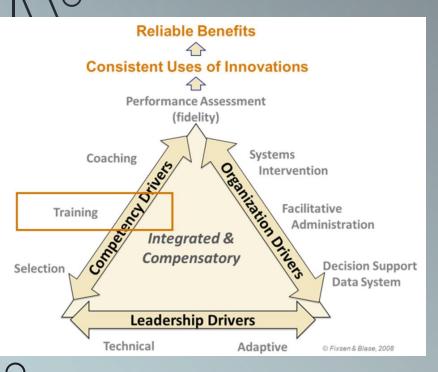
May require an interdisciplinary team:

- 1. An occupational therapist,
- a physical therapist when issues of positioning, seating, and/or motor skills affect an individual's ability to communicate effectively (Angelo, 1997).
- The specific nature of the individual's physical, sensory, cognitive, and communication needs will determine which other professionals need to be involved in the planning process.
- Involvement does not ensure collaboration
- The provision of communication services and supports is likely to be compromised if input from any single professional is not adequately synthesized and coordinated with input from the individual, the family, and other professionals









Training:

- Traditionally presented by the "sit and get" method
- The technical or "how-to" information
- Most skills can be taught, but to be used with fidelity the skills need to be applied on the job with help and feedback from a coach.

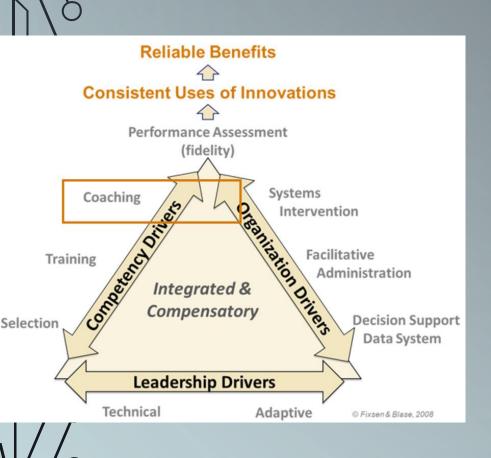
- What does the NJC say about training?
 - Surveys tell us that even experienced professions do not feel qualified to support individuals with severe disabilities (ASHA, 2000; King, 1998; Ogletree, Sportsman, VanGiesen, & Siegel, 2000; Simpson, Beukelman, & Bird, 1998).
 - IDEA and ASHA mandate providers have adequate training to provide services and supports (e.g., <u>AAMR</u>, <u>2001</u>; <u>AOTA</u>, <u>2000</u>; <u>APTA</u>, <u>1981</u>, <u>2001</u>; <u>ASHA</u>, <u>2001</u>; <u>CEC</u>, <u>1997</u>; <u>TASH</u>, <u>1999</u>).
 - Professionals can only serve persons with severe disabilities if they have knowledge and skills specific to this population (McCarthy et al., 1998).
 - Having a license doesn't equal expertise. It is the
 responsibility of the professionals on the team to have
 the knowledge and skills necessary to serve this
 population. To provide services without expertise
 would violate professional codes of ethical conduct.
 - If sufficient numbers of qualified personnel are unavailable, the agency has an obligation to secure appropriate training for existing staff or to secure additional staff with the needed expertise (<u>Timothy</u>

W. vs. Rochester, NH School District, 1989).

 The mere lack of trained personnel cannot be used as a reason to deny access to communication services and supports

IMPLEMENTATION DRIVERS: BUILDING COMPETENCY THROUGH COACHING





Coaching is an essential component of an effective professional development program. Coaching can build will, skill, knowledge, and capacity because it can go where no other professional development has gone before: into the intellect, behaviors, practices, beliefs, values, and feelings of an educator. (Agular, 2013, p.



TRANSFORMATIONAL COACHING – WHAT I'M LEARNING...

- There's a lot of different models, it's kind of like a robust AAC apps. They're mostly all good, and have a lot of the same ideas. Pick one, learn it, and practice it so that you get more comfortable implementing it.
- What I've been reading...
 - The Art of Coaching: Effective Strategies for School Transformation by Elena Aguilar
 - Educational Coaching: A Partnership for Problem Solving by Cathy A. Toll
- Look for state resources-I'm doing an online book study right not through the <u>Department of Public Instruction</u>
- Regional trainings on coaching in Wisconsin through the RTI Center.
- Made this my personal practice goal and I'm a part of a professional learning community in my district

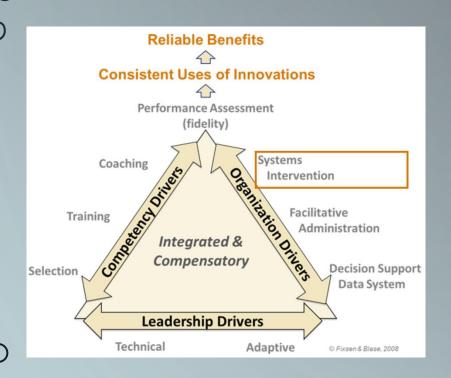




https://youtu.be/jLIMI1vNscs

IMPLEMENTATION DRIVERS: ORGANIZATIONAL DRIVERS





- Systems thinking
- Administrative supports or barriers
- The data to support decisions

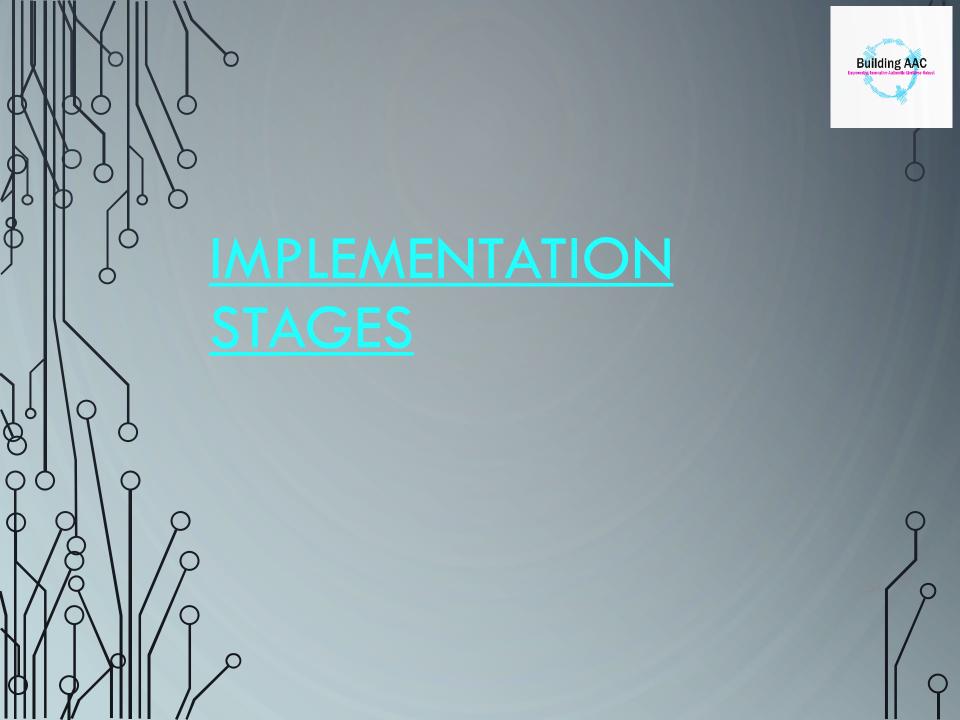
What are some potential organizational barriers you may encounter when implementing AAC?

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EXPLORATION

- District-wide and at Sullivan Elementary
 - Year 1:
 - Expert model: provided in-service training to all of SLPs at monthly meetings about best practices in AAC-planted the seed about Core Vocabulary
 - We got more referrals for consultations for specific students
 - Two referrals from Sullivan for SGDs started both bilingual students out on P2G with a 7 x 11 grid size → moved from PECS books.
 - Students in ID rooms used low-tech PECS books, BIGMacks, GoTalks, and the teacher used her personal iPad mini with an SGD app for circle-time activities to provide voice output.



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Expressely law story Action the Unities Releast

- District-wide and at Sullivan Elementary
 - Year 2:
 - Myself and a group of SLPs developed a collaborative learning team (CLT) around core vocabulary
 - Our AT referrals were sky rocketing and we implemented a wait-list $\frac{1}{2}$ way through the year.
 - SLP at Sullivan continued to share more about core vocabulary with ID teachers. SLP had already been implementing some low-tech core with the students after hearing more about core year one.
 - SLP wanted me to come in to present more information to the two teachers she worked with. The team, 2 SLPs and 2 ID teachers, decided to move forward with core vocabulary.
 - Got large core boards for their rooms
 - Developed smaller low-tech boards
 - File folder boards that added some fringe
 - The team found the Cool Tools boards and developed their own version-liked having access to some fringe words



INITIAL IMPLEMENTATION

- First time the EBP is being used
- This is the most fragile Stage
- Awkwardness associated with trying new things
- Difficulties associated with changing old ways of work are strong motivations for giving up and going back to comfortable routines (business as usual)
- Establishing and sustaining changes to the point of integration into daily work is not likely unless there is external support for change at the practice level (support from coaches; Joyce & Showers, 2002), organization level (support from Implementation Teams; Aladjem & Borman, 2006; Nord & Tucker, 1987), and system level (support from Implementation Teams; Schofield, 2004).



Comparison of Intervention Effect With and Without an Implementation Team

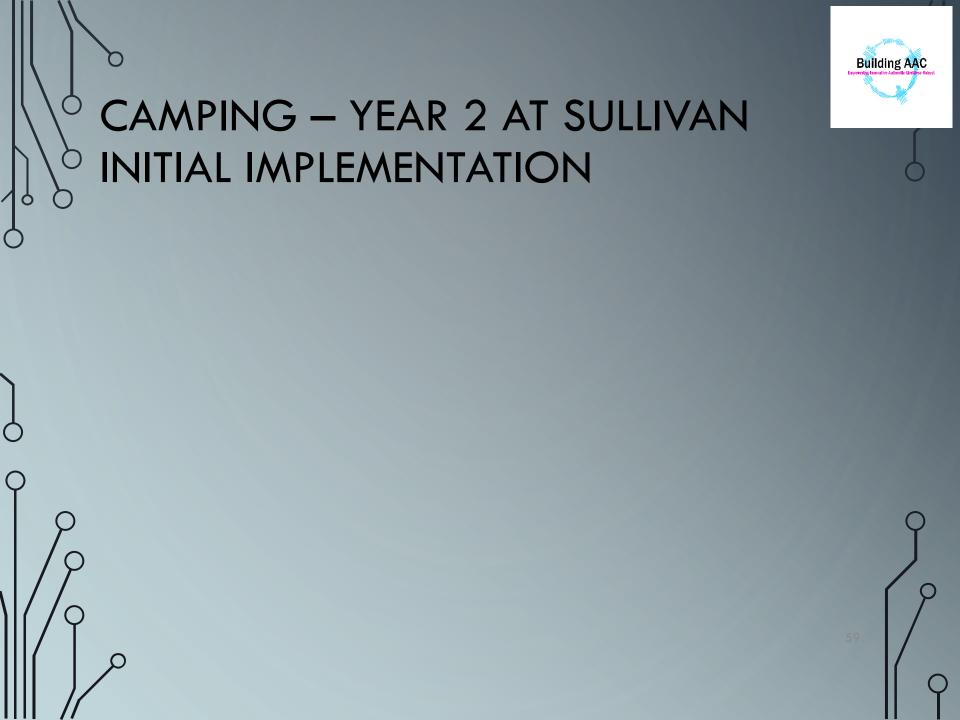
IMPLEMENTATION

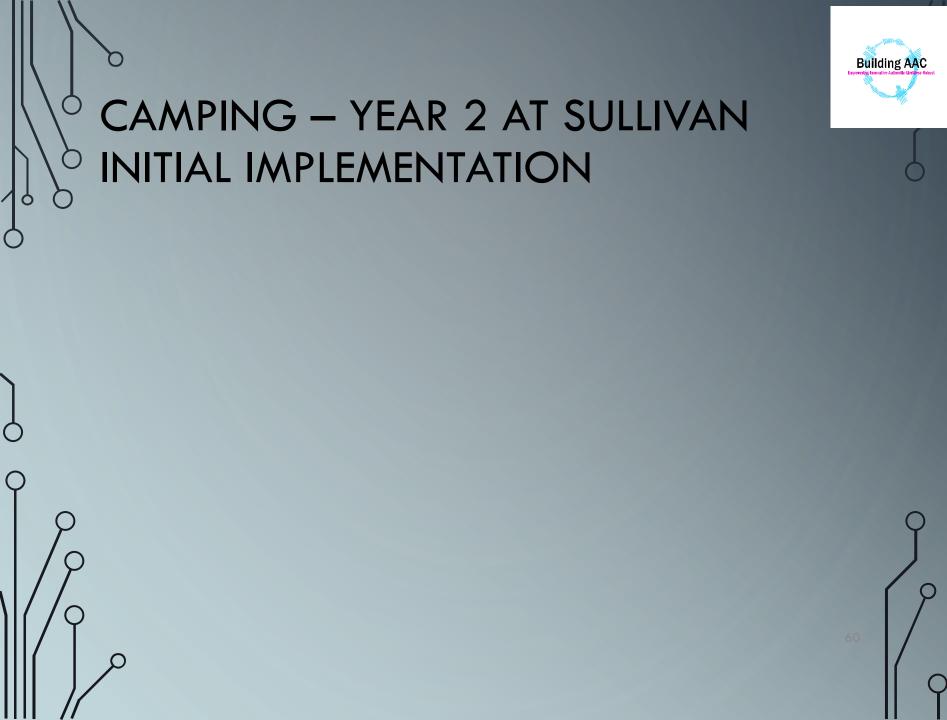
| | | Impl. Team | NO Impl. Team | | |
|--------------|-----------|--|--|--|--|
| INTERVENTION | Effective | 80%, 3 Yrs | 14%, 17 Yrs | | |
| | | Effective use of Implementation Science & Practice | Letting it Happen Helping it Happen | | |

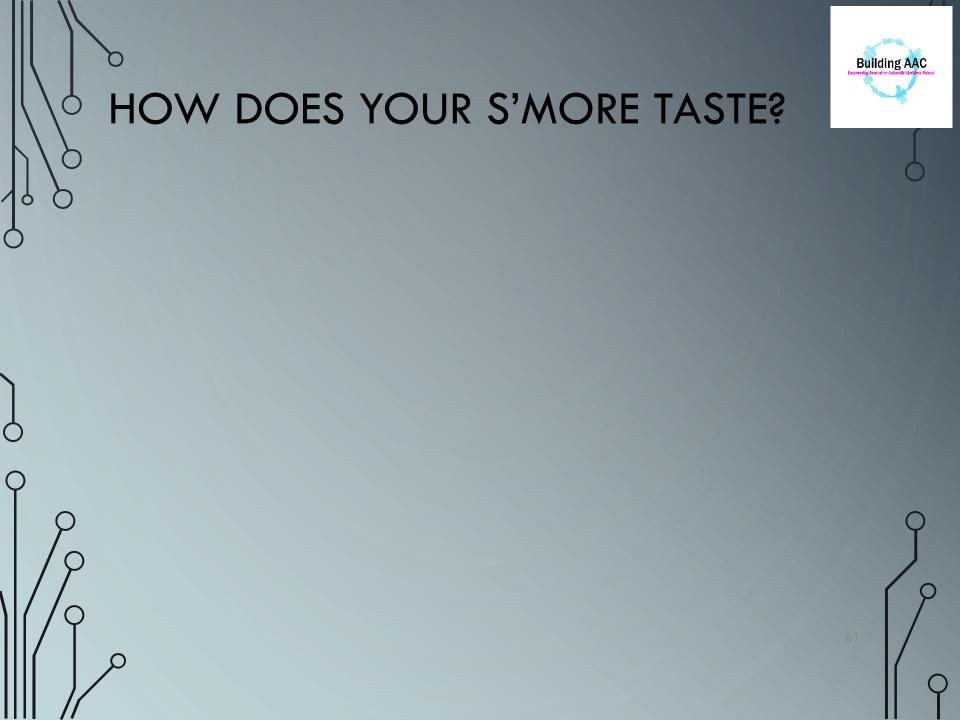
Fixsen, Blase, Timbers, & Wolf, 2001

Balas & Boren, 2000

Substantial Return on Investment









FULL IMPLEMENTATION

- Embedded myself in their team
- District-wide and at Sullivan Elementary
 - Year 3:
 - Joined Sullivan's Collaborative Learning Team (CLT).
 - The CLT meets weekly (I join biweekly). They use this time to plan out their core words of the week.
 - Pick out 2-4 core words and 5-6 fringe vocabulary that relates to their theme or Unique Learning Systems monthly lessons.
 - We developed a "pre test" and "post test" assessment to monitor progress.



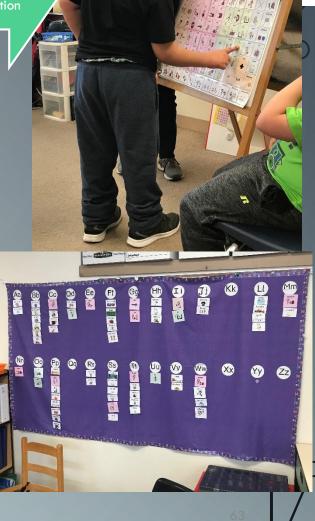
Mini Core boards at the table for small groups or individual work

Core Posters in the classroom for group instruction



File folder "cool tools" communication systems & mini versions to take to

Word wall with core
vocabulary and fringe
vocabulary from the "word
of the week"





FULL IMPLEMENTATION







DATA & FIDELITY CHECKS

Developed a Rubric/protocol for pre and post testing

| Use Core Vocabulary | | | | Use targeted word with core board |
|----------------------------|--|---|--|-----------------------------------|
| Board to increase Identify | fy targeted core word rom an array of 3 | Find targeted core word on the core board independently | Use the targeted word to fill in the blank to make a complete sentence | during a structured functional |

- Teach two new core words and 4-6 fringe/theme vocabulary every two weeks.
- Necessary when implementing EBP

DATA & FIDELITY CHECKS

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Expressing Insertable Authorities Abo

improved stayed the same

• Teach two new core words and 4-6 fringe/theme vocabulary every two weeks.

| | Baseline - identify from group of 3 (+/-) Core words: | | Baseline - identify on core board (+/-) Core words: | | Baseline - Use in a sent - fill in the blank - group of 3 (+/-) Core words: | | | |
|------|--|----------------|---|--|---|------|-----|--|
| | | | | | | | | |
| | make | give | make | give | make | give | | |
| | + | + | - | - | - | • | 2/6 | |
| | + | - | - | - | + | + | 3/6 | |
| | + | + | - | + | + | + | 5/6 | |
| | - | + | + | - | - | - | 2/6 | |
| | - | - | + | + | + | + | 4/6 | |
| | + | + | - | - | - | - | 2/6 | |
| | + | + | + | + | + | + | 6/6 | |
| | + | + | - | - | + | - | 3/6 | |
| | ART | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 3/18 | | | | | | | | |
| | Baseline - ident of 3 (+/-) | ify from group | Baseline - ident board (+/-) | ify on core | Baseline - Use in a sent - fill in the blank - group of 3 (+/-) | | | |
| | Core | words: | Core | words: | | | | |
| | make | give | make | give | make | give | | |
| | + | - | + | - | + | - | 3/6 | |
| | - | + | - | - | + | - | 2/8 | |
| | + | + | + | + | + | + | 6/6 | |
| | - | + | + | - | - | + | 3/6 | |
| | ABSENT | | | | | | | |
| | + | + | + | - | - | + | 4/6 | |
| | + | + | + | + | + | + | 6/6 | |
| | + | + | + | - | - | + | 4/6 | |
| | + | + | + | - | - | - | 3/6 | |
| | - | - | + | + | - | + | 3/6 | |
| | | | | * Most of the students pointed to 'take' | | | | |

instead of 'give'

Pre Test

Post Test

DATA & FIDELITY CHECKS

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- Did reviews each semester
- Reassessed learning of all targeted words → Not all 25
 had been introduced mid year.
- Team even looked at sequencing 3 word utterances and use of core in functional routines.

| Date core board shown the picture 1/29 1/2019 1/29/19 9/25 7/25 1 to 9 words Not without model | | |
|--|-----|---|
| Q 2/5/19 1/25 0/25 0 to 1 word No | HOH | |
| 2/5/19 8/25 7/25 6 to 8 words Prompts | Yes | > |
| 1/29/19 6/25 0/25 4 to 6 words Yes - limited to "I want" | Yes | |
| 1/29/19 5/25 0/25 4 to 5 words No | No | Ç |
| 1/29/19 15/25 15/25 9 to 15 words prompts | Yes | |
| 1/29/19 18/25 16/25 | | |
| 1/29/19 12/25 15/25 8 to12 words Prompts | Yes | (|
| 1/24/19 13/25 18/25 11 to 13 words No | Yes | |

COACHING-CHANGE CAN HAPPEN!



Presentation of Theory

Modeling

Modeling, video, simulation

Lecture, cooperative learning

Practice & Feedback

Practice during learning session

Coaching

Where work occurs

Understanding

(Explain main concepts)

85%

85%

85%

90%

Skill Attainment

(Can demonstrate)

15%

18%

80%

90%

Application/ **Problem Solving**

(Uses the skill effectively)

5%-10%

5%-10%

10%-15%

80%-90%

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SPEAKER INFORMATION

Jennifer Schubring, M.S., CCC-SLP

Assistive Technology Program Support – Green Bay Area Public

Schools

Owner, Building AAC, LLC



Contact:

<u>iennifer@buildingaac.com</u> <u>www.buildingaac.com</u>

Facebook @buildingaac

Twitter:@jjschubring