

Project Core: An Implementation Model for Building Early Symbolic Communication

Karen Erickson, PhD, CCC-SLP
Yoder Distinguished Professor
Center for Literacy & Disability Studies
University of North Carolina at Chapel Hill





Disclaimer

This presentation was produced under U.S. Department of Education, Office of Special Education Programs Grant No. H327S140017. The views expressed herein do not necessarily represent the positions or polices of the Department of Education. No official endorsement by the U.S. Department of Education of any product, commodity, service or enterprise mentioned in this publication is intended or should be inferred. This product is public domain. Authorization to reproduce it in whole or in part is granted. While permission to reprint this publication is not necessary, the citation should be: Erickson, K. (2017). Project Core: An Implementation Model for Building Early Symbolic Communication. Webinar presentation for the National Center on Deaf-Blindness.

Project Core Overview

 Develop a comprehensive implementation program for the delivery of the multi-tiered system for augmenting language (mSAL).

> Distribute through Project Core website

Develop implementation tools and training resources for effective use

Refine student communication supports





Defining the Need: Students

- Survey representing large sample of students with significant cognitive disabilities (n=38,038)
- 23% used aided AAC or sign language
 - 70% of aided AAC users and 84% of sign language users used only single symbols or signs for a restricted range of purposes.
- 9% were reported to have no symbolic system of communication
 - 45% used conventional gestures, 15% used unconventional gestures, 40% used reflexive, rather than intentional behaviors







Erickson & Geist (2016)

Defining the Need: SLPs

- Based on ASHA (2016), SLP caseloads:
 - 31 students in separate settings
 - 50 students in general education settings
 - Across settings average 23.2 hours per week on direct intervention
- Level of student need not always related to intensity of service (Brandel & Loeb, 2011)





Beliefs About Students

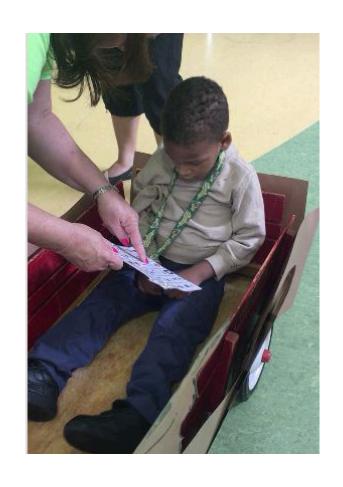


All individuals, regardless of the severity of their disability, have the basic right to ongoing instruction that will help them develop versatile communication skills.





Beliefs About Teachers



Teachers have the ability to acquire the knowledge, skills, and dispositions needed to help students with significant cognitive disabilities acquire versatile communication skills using a core vocabulary approach.





Intended Outcomes

- 1. Improvements in student communication abilities and academic achievement.
- 2. Increases in frequency and quality of teacher use of Universal Core vocabulary and other elements of the multi-tiered system for augmenting language (mSAL).
- 3. Availability of a comprehensive implementation model to support mSAL use.



Multi-Tiered System for Augmenting Language (mSAL)

Tier 3: Individualized

> Tier 2: Specialized

Tier 1: Universal Core Vocabulary



Multi-Tiered System for Augmenting Language (mSAL)

Elements of each Tier:

- a well-organized, core-based, AAC system
- use of natural everyday routines, interactions, and environments for teaching
- models of symbol use by partners
- focus on attributing meaning to all behaviors

Informed by Mary Ann Romski and Rose Sevcik's System for Augmenting Language (SAL) (1996)





mSAL Tiers

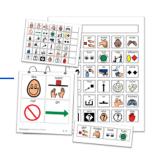
- Tier I Universal communication solution delivered by teachers
- Tier II Specialized solutions guided by SLPs
- Tier III Individualized solutions
 guided by teams with
 expertise in the population and
 communication



What is Core Vocabulary?

- Limited set of highly useful words.
 ~85% of spoken language is comprised of 250-350 words
- Vocabulary is primarily pronouns, verbs, descriptors, and prepositions. Very few nouns.

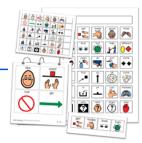




Why Emphasize Core?

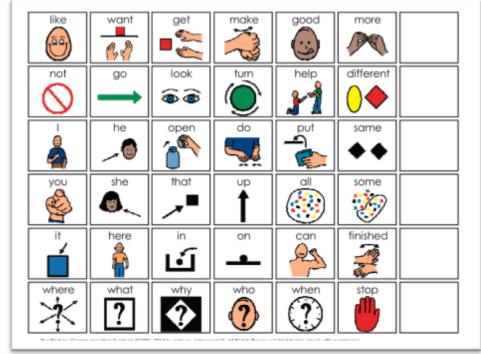
- MANY opportunities to teach and model each day, all day.
- Useful across settings, topics, purposes and people.
- Specialized and personalized vocabulary provide important, but far fewer opportunities to teach and model (targeted in mSAL at Tier 2 and 3)





Universal Core Vocabulary

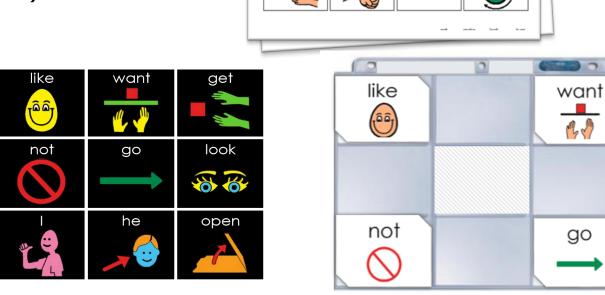
- 36 words
- Meaningful as single words
- Can be combined meaningfully
- Useful across
 environments, activities,
 and interactions

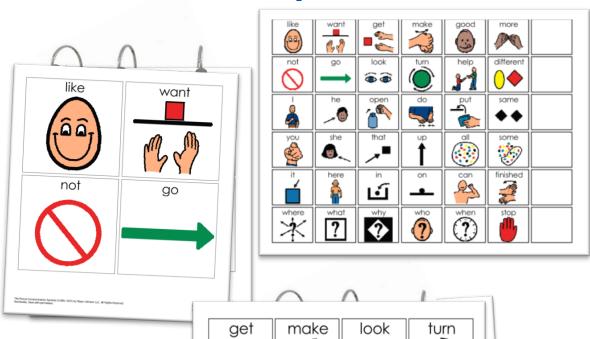




Universal Core Vocabulary Formats

- 36 location boards
 - Individual use
 - Classroom use
- 9 location X 4 pages books
- 4 location x 9 pages books
 - 4 square (direct select)
 - 4 in-line (partnerassisted scanning)
- High contrast versions for all





3D Symbols from Universal Core

- Represent select core words
- Offer consistency
- Each symbol includes:
 - Shape, color, and texture representing the word class
 - Unique raised element
 - Braille
 - Printed word





Benefits of Universal 3D Symbols

- Recreate near exact duplicates
- Dramatic reduction in choking hazard
- Easily create symbols in various sizes
- Begin working on conceptual understandings of language from the beginning





Everyone communicates

Communication Matrix

by Dr. Charity Rowland of Oregon Health & Science University (original 1990, revisions in 1996 and 2004) www.communicationmatrix.org

- Skills assessment
- Earliest stages of communication
- Any form of communication, with or without symbol use
- Basic reasons to communicate (refuse, obtain, social, information)





Communication Ability Levels

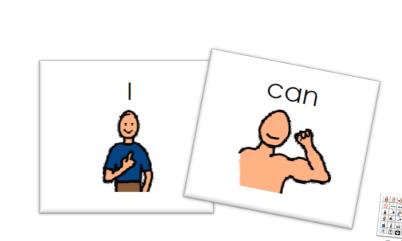
- I. Pre-Intentional
- II. Intentional Behaviors
- III.Unconventional Communication

IV. Conventional Communication



VI. Abstract Symbols

VII.Language





Pre-intentional to Intentional & Pre-symbolic to Symbolic

Teaching Principles

- Encourage but do not require communication.
- Have the Universal Core with you and with the student at all times.
- Be patient, provide sufficient time for students to respond, and hold your point.
- Attribute meaning whenever possible.
- Use the Universal Core to model, repeat and expand.



Variations with 3D Symbols

- Start with Go, Like, Not
- Use them every time the student is:
 - going to move (GO)
 - expressing pleasure (LIKE)
 - expressing refusal or displeasure (NOT)
- Pair the symbol with a gesture when students cannot hear the spoken words go, like, or not.



Maximize Opportunities: Daily Routines

- Shared Reading
- Predictable Chart Writing
- Independent Reading
- Independent Writing
- Alphabet
 Knowledge/Phonological
 Awareness
- Math

- Specials
- Vocational Ed
- Art
- Music
- Lunch
- Personal Care
- Arrival/Departure

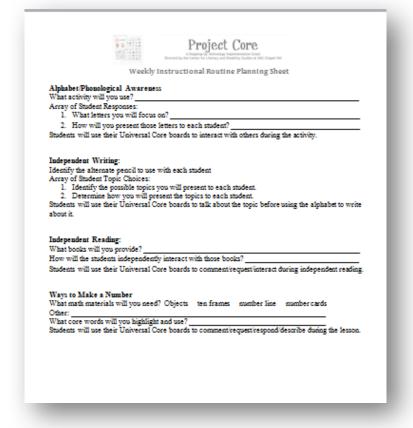




Instructional Planning Supports

 Instructional planning for 5 common instructional routines.

 Model that can be applied to other routines/lesson plans.







Self-Evaluation and Observation

- Guide teachers' selfassessment and reflection on use of mSAL and the Universal Core vocabulary.
- Support
 peer/coach/administrator
 observations.

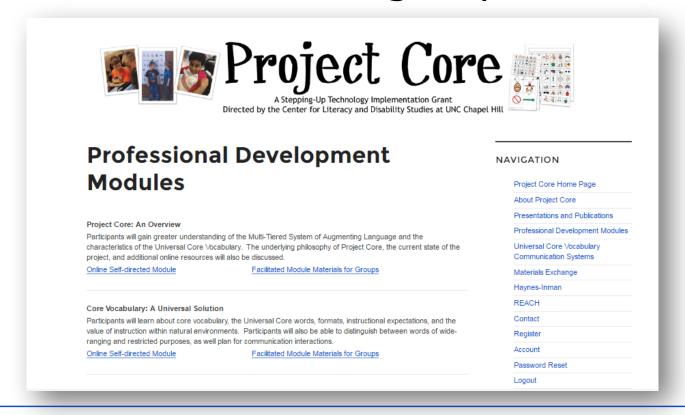
	1000 10000	A Stepping-Up Tex Directed by the Center for Liter	racy and D	sability Stu	tion Urant udies at UNC Chapel Hill.
SHARED READING SELF-EVALUATION & OBSERVATION					
Reader:Other Adults:					
Students:					
Book Title:					
Date:7	Гіте:	Observer:_			
	Evidence		Yes	No	Comments
ALL students have an individual communication system					
that meets their access needs (e.g., Universal Core with					
partner-assisted scann	ing layout).				
Content and complexity of book is appropriate for					
age/grade/ability level of students.					
Before reading, the adult connects book to previously					
taught information or (experiences.				
Core-based comments have been preplanned and are					
used in the lesson.					
Adults comment while	reading using com	munication			
systems that are simila	er to the students'	individual			
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
		Adults provide adequate wait time and ask or			
systems.	te wait time and a	SK Of			
systems. Adults provide adequa		I			
systems.	participate page-l	y-page.			





Professional Development

- Library of self-directed modules
- Materials to facilitate group sessions





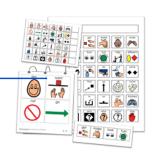


Review: Project Goal

 In collaboration with partner schools, develop, evaluate and refine tools for delivery of the multi-tiered system for augmenting language (mSAL).

Gather data to inform design.





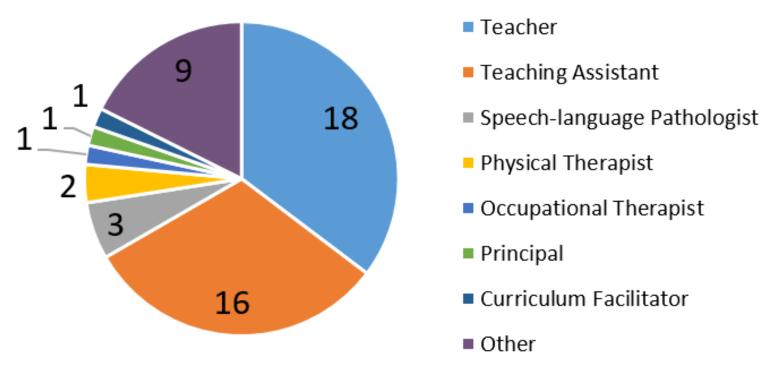
Descriptive Data

Year 1 Review





Professionals (n=51)

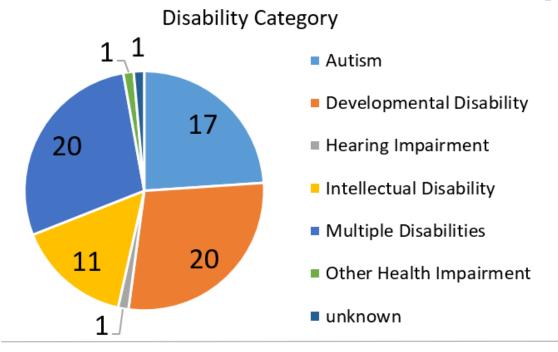


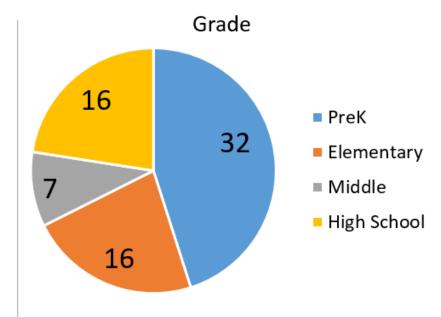
On average, participating teachers have several years of experience (n=16; M=13 years; SD=8 years)

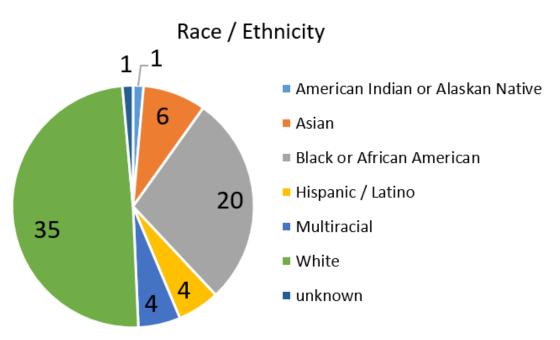
On average, participating teaching assistants are newer to the field (n=11; M=3.5 years; SD=2 years)

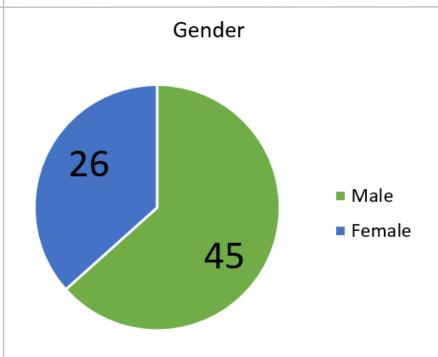


Students (n=71)









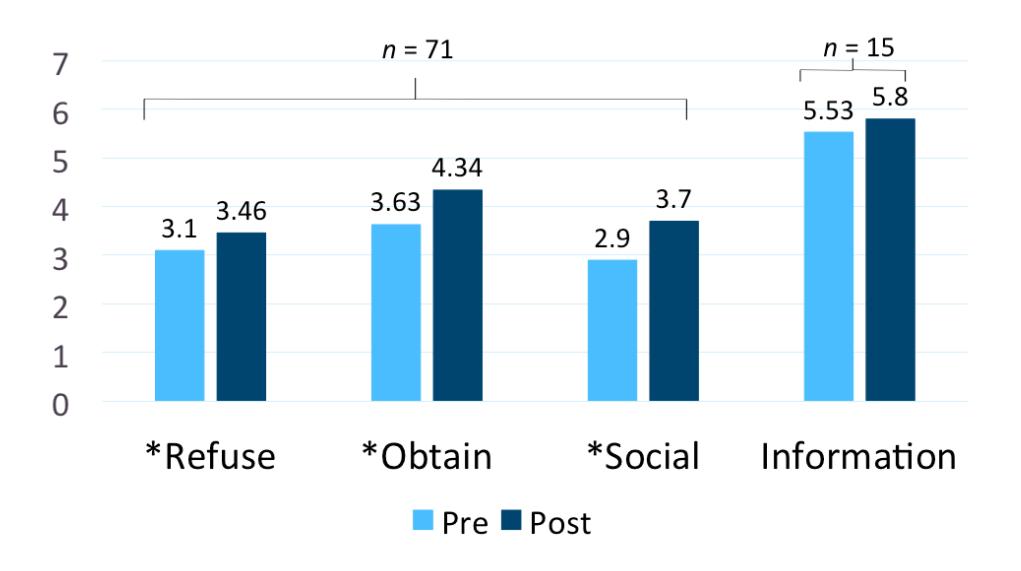
Communication Matrix

- Communication Ability Levels (1-7)
- 4 basic reasons for communicating
 - Refusing
 - Obtaining
 - Social connection
 - Providing or seeking information

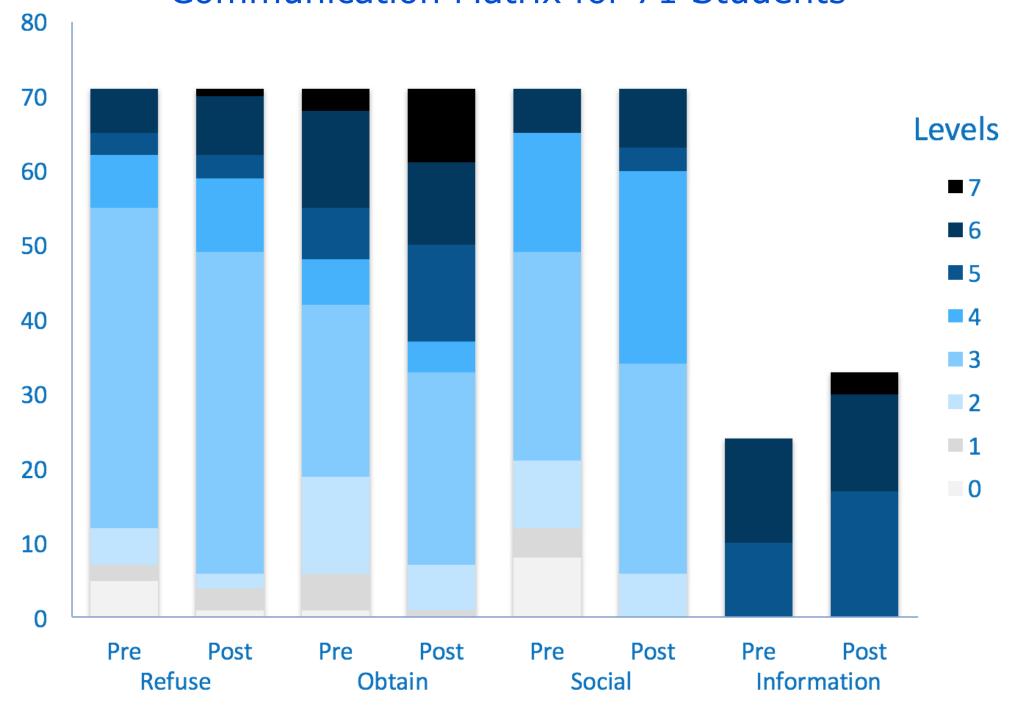




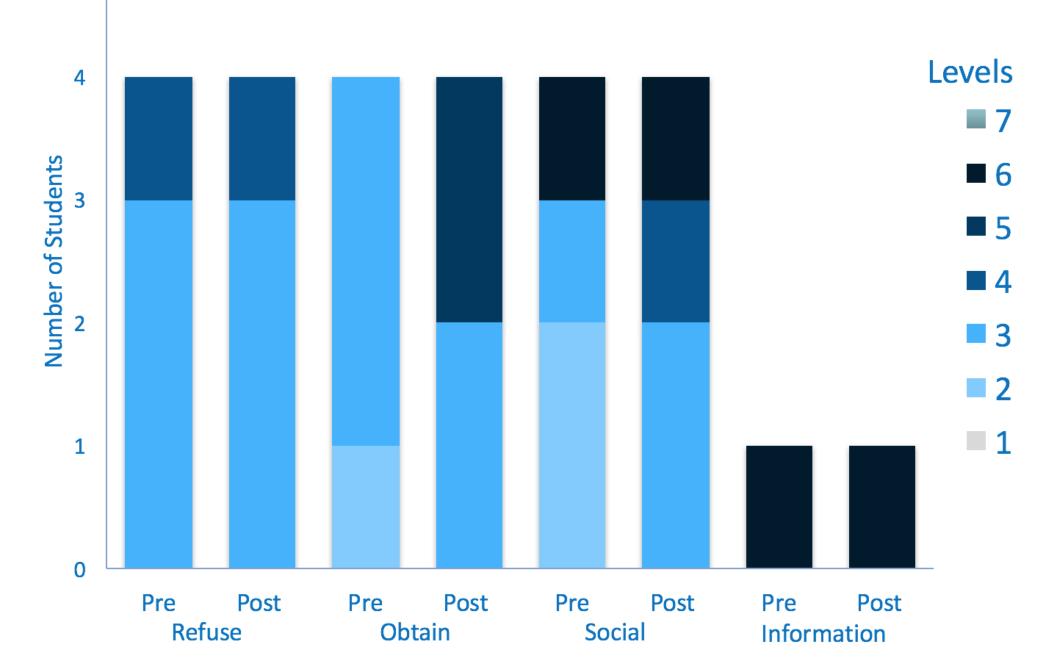
Change in Average Ability Level



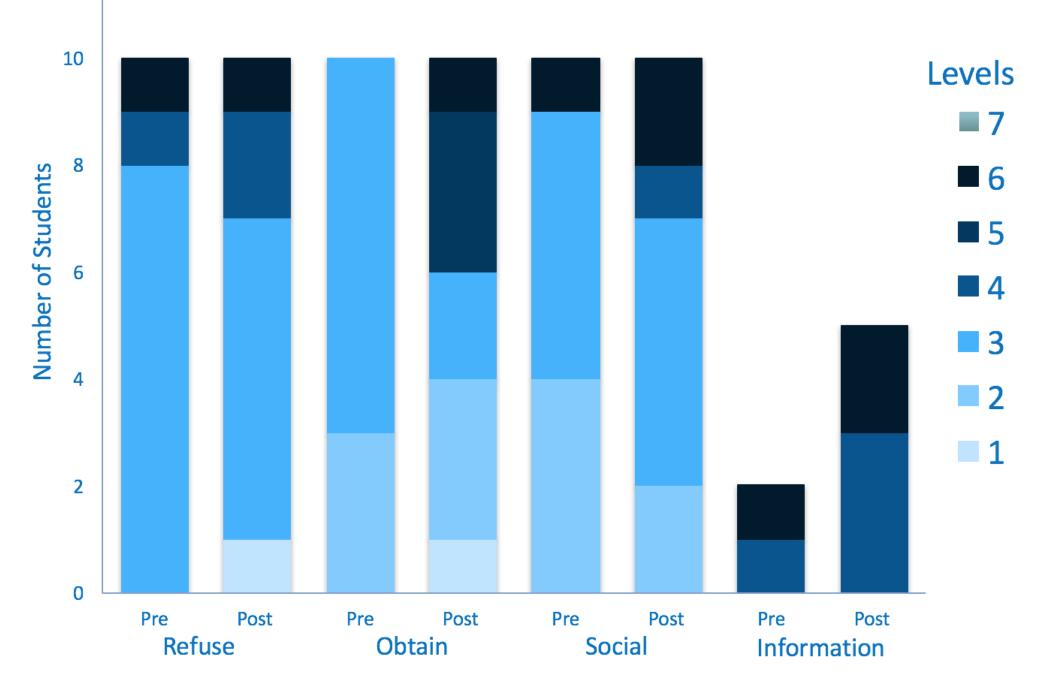
Pre to Post Change in Highest Level on the Communication Matrix for 71 Students



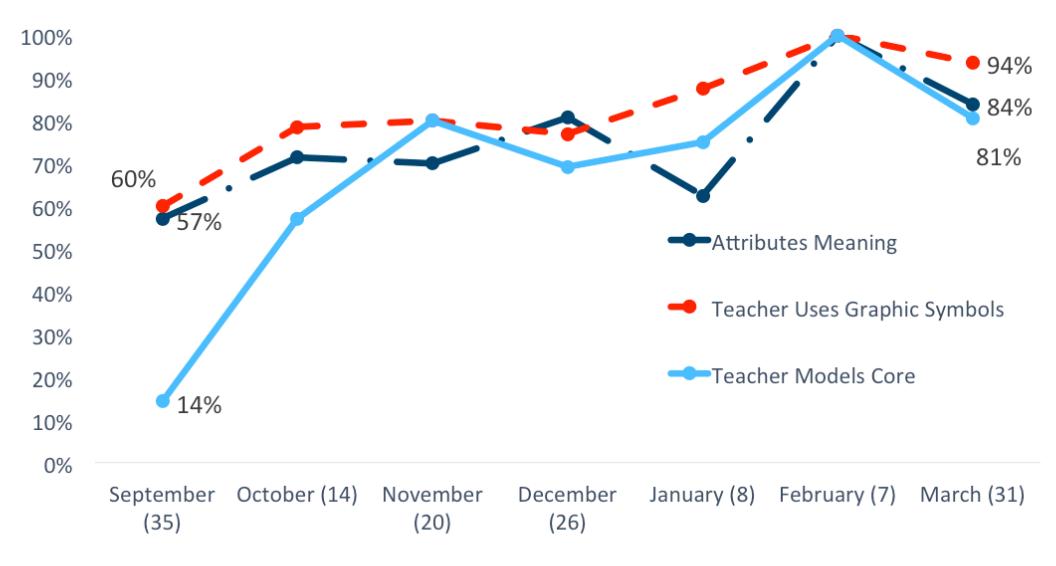






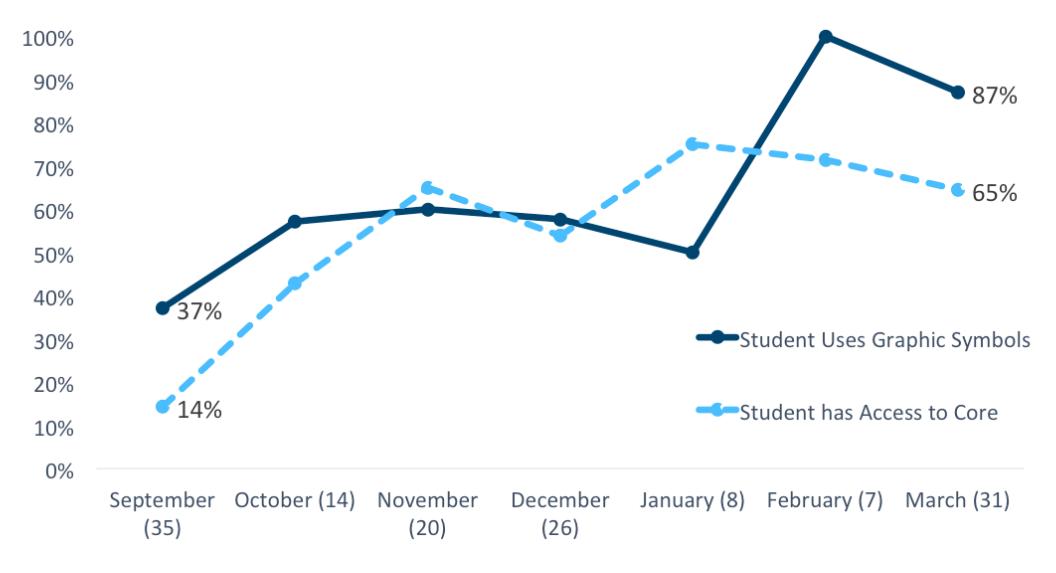


Classroom Observations: Teacher Behaviors



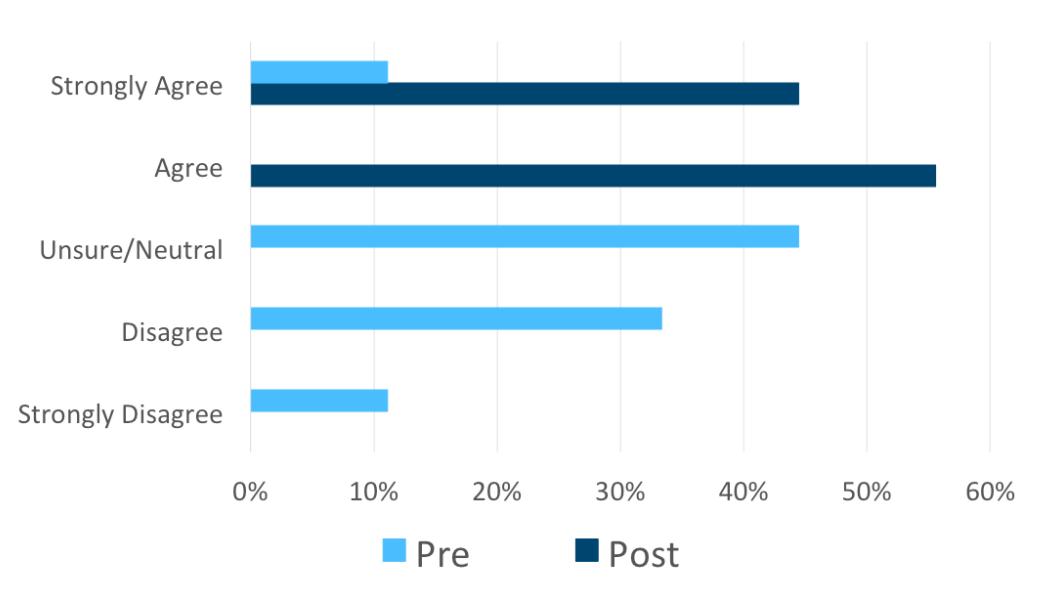
Number in parentheses is the number of observations

Classroom Observations: Student Access and Use

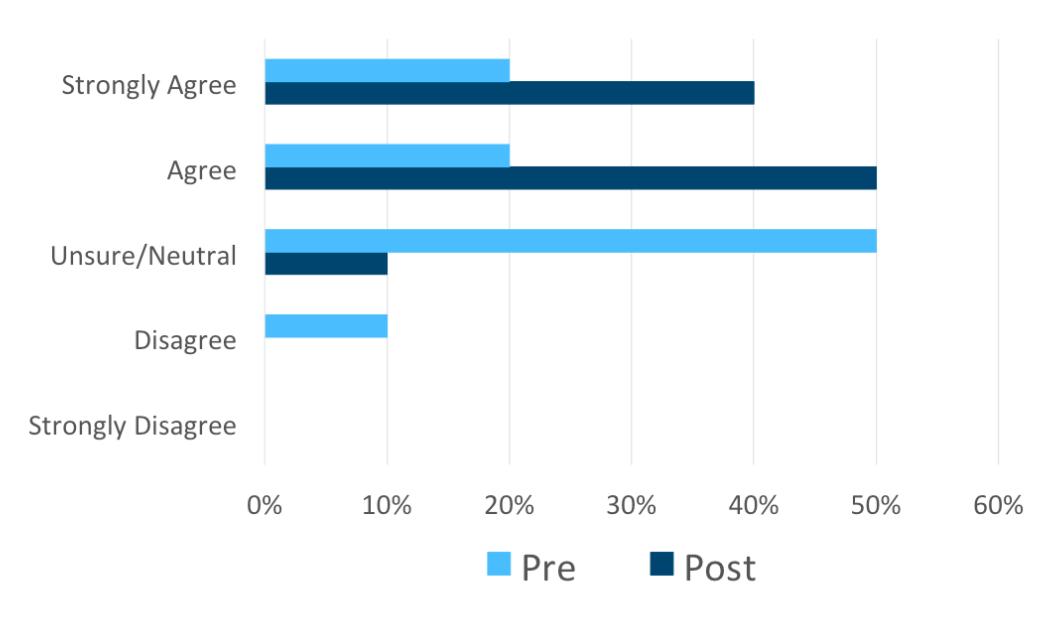


Number in parentheses is the number of observations

Teachers' self-assessment: I understand how to use a core vocabulary approach with my students who need AAC. (n=9)



Teachers' self-assessment: I feel comfortable and confident in my ability to use AAC with my students. (n=10)



Development & Dissemination Plan

- 1. Refine mSAL implementation model (years 2-4)
- 2. Scale up to 10 Dissemination Schools (year 5)
- 3. Build a community of practice and distribute all resources through www.project-core.com





www.project-core.com

- Project Overview
- Universal Core vocabulary formats
- 3D symbol files
- Selection tool
- 14 Professional Development Modules
- Instructional Planning Guides & Checklists
- Conference Presentations & Publications
- Frequently Asked Questions (FAQs)





Research Team

The Center for Literacy and Disability Studies

University of North Carolina at Chapel Hill 321 South Columbia St, Suite 1100 Chapel Hill, NC, 27599-7335

Center Website: http://www.med.unc.edu/ahs/clds

Project Website: www.project-core.com

Karen Erickson, PhD, Principal Investigator

karen_erickson@med.unc.edu

Claire Greer, PhD claire greer@med.unc.edu

Lisa Erwin-Davidson, MS lisa_ed@med.unc.edu

Lori Geist, PhD, Project Director

lageist@unc.edu

Penny Hatch, PhD

phatch@med.unc.edu

Kathryn Dorney, MA

kathryn_dorney@med.unc.edu

