



Project Core

Classroom-wide Core Vocabulary Instruction for Students with Significant Cognitive Disabilities

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Project Core Overview

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

Refine student communication supports

Develop implementation tools and training resources for effective use

Distribute through Project CORE website



Defining the Need

- 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)



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

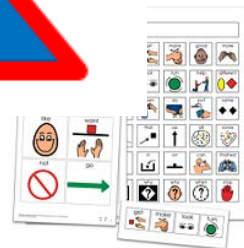
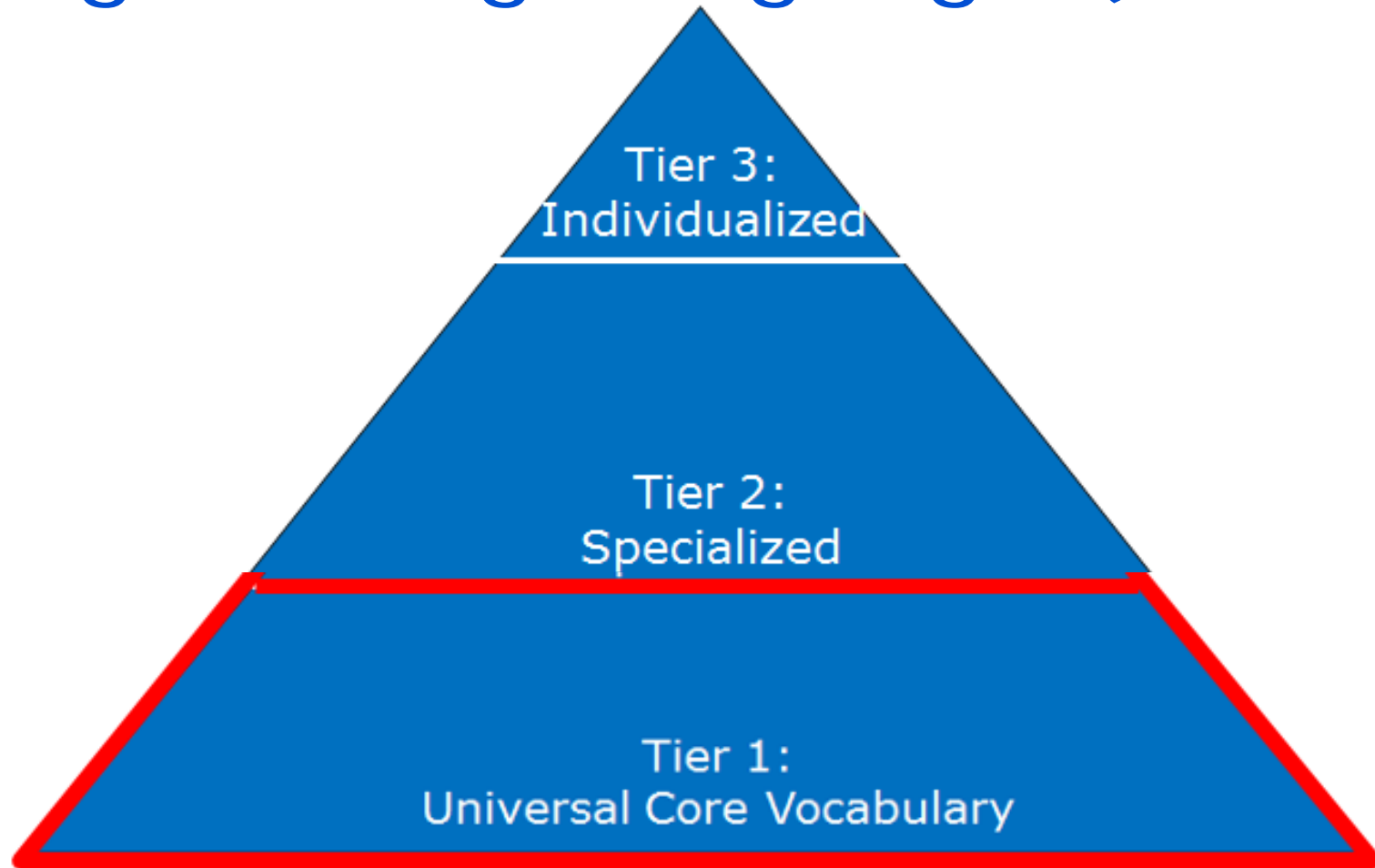
Teachers have the ability to acquire the knowledge, skills, and dispositions needed to help students with significant cognitive disabilities acquire versatile communication skills using a core vocabulary approach.



Intended Outcomes

1. Improvements in student communication abilities and academic achievement.
2. Increases in frequency and quality of teacher use of Universal Core and other elements of mSAL.
3. Availability of a comprehensive implementation model to support mSAL use.

Multi-Tiered System for Augmenting Language (mSAL)



Multi-Tiered System for Augmenting Language (mSAL)

- Elements of each Tier:
 - a well-organized AAC system
 - core vocabulary and symbols
 - use of natural everyday environments for teaching
 - models of symbol use by partners
 - ongoing resource support and feedback

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



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.



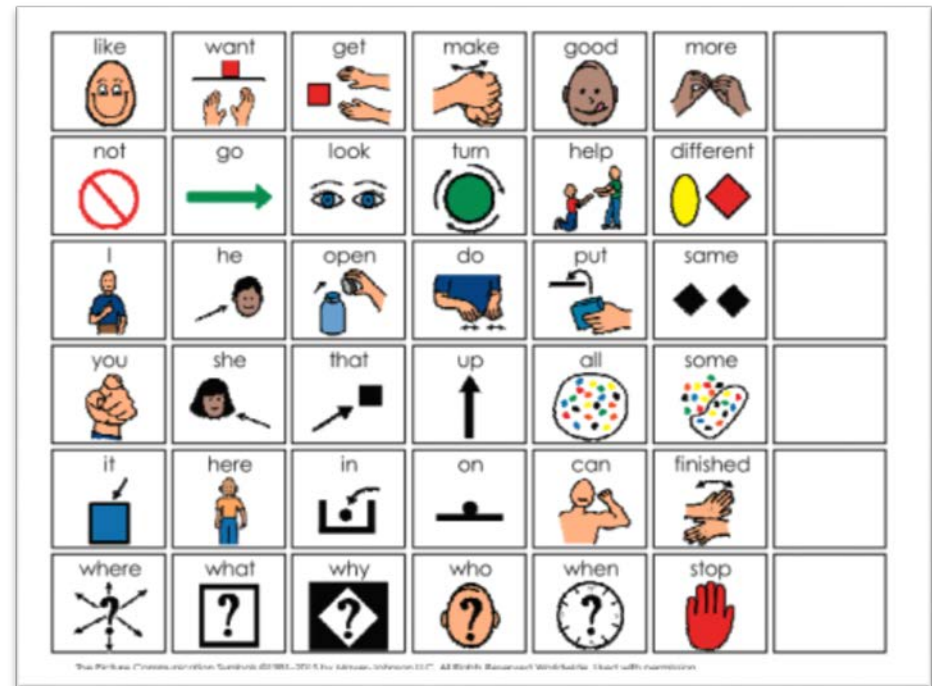
Why Emphasize Core?

- **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)



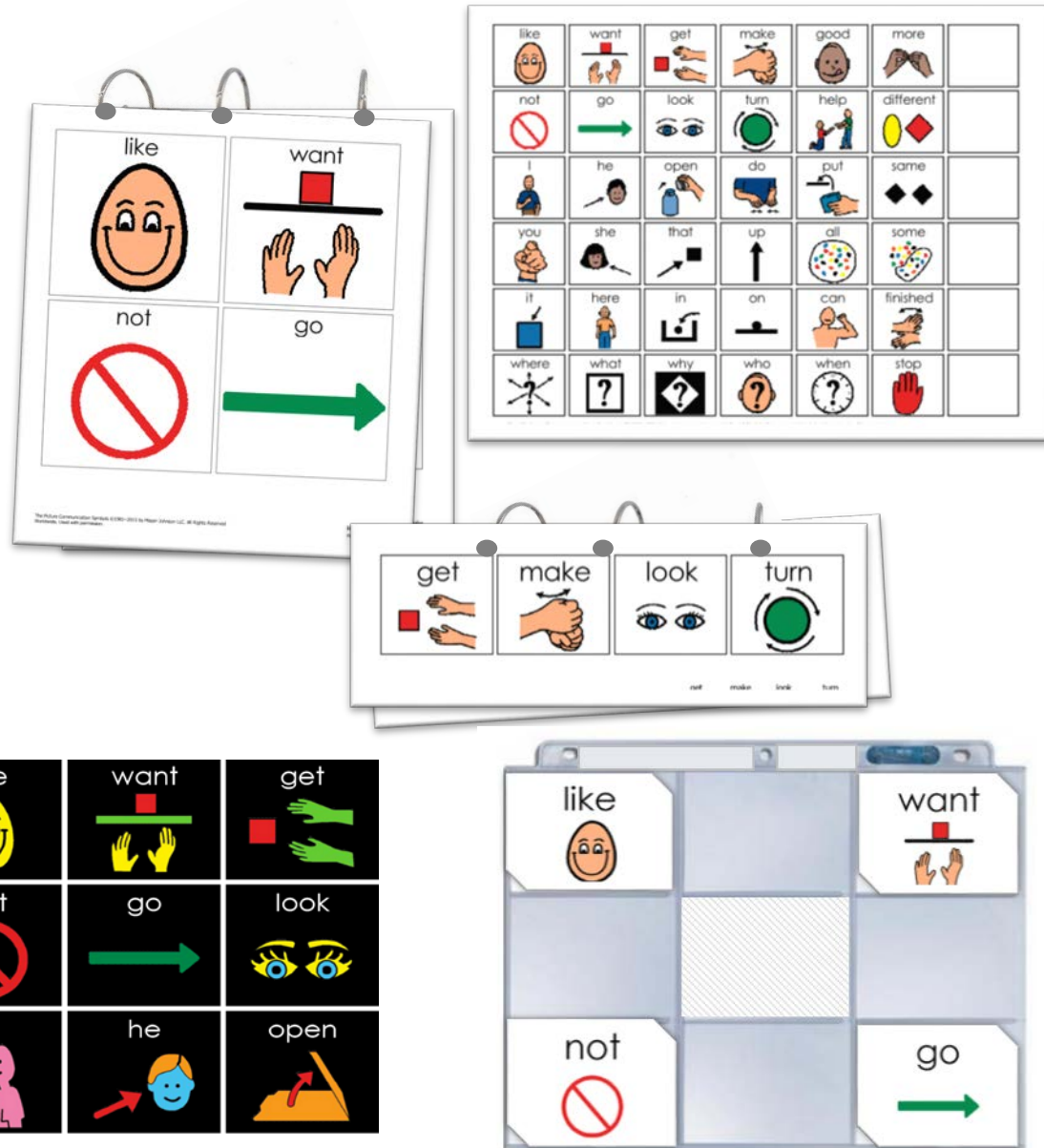
Universal Core Vocabulary

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



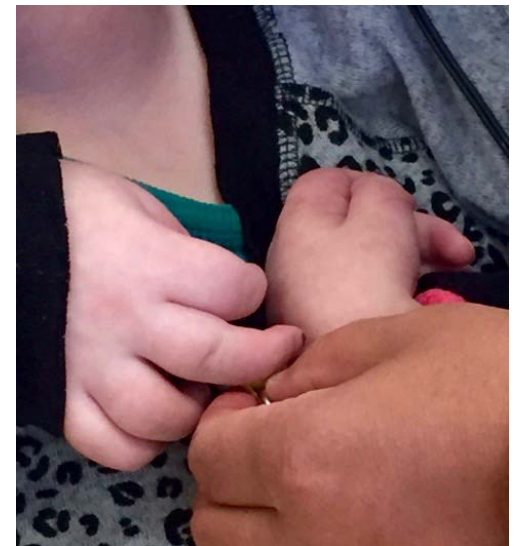
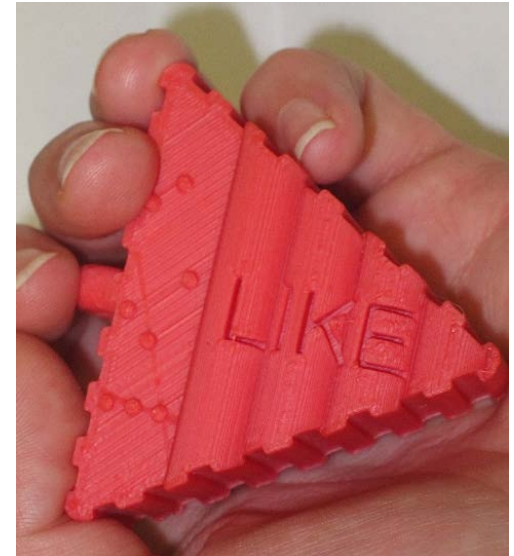
Universal Core Vocabulary Formats

- 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 (partner-assisted scanning)
- High contrast versions for all



3D Tactual Symbols from Universal Core

- Represent select core words
- Offer consistency
- Each symbol includes:
 - Unique raised element
 - Printed word
 - Braille



Everyone communicates

Communication Matrix

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

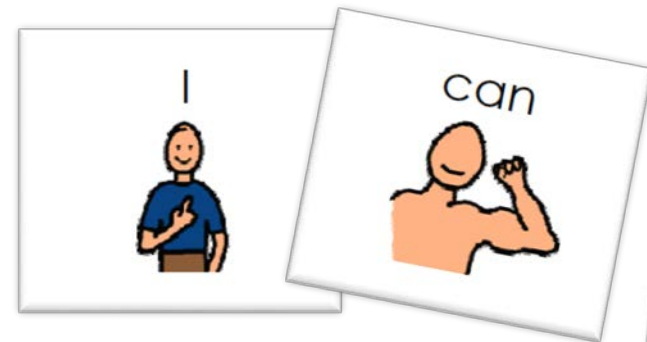
www.communicationmatrix.org

- 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
- V. Concrete Symbols
- VI. Abstract Symbols
- VII. Language



Pre-intentional to Intentional &
Pre-symbolic to Symbolic

Case Examples



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.



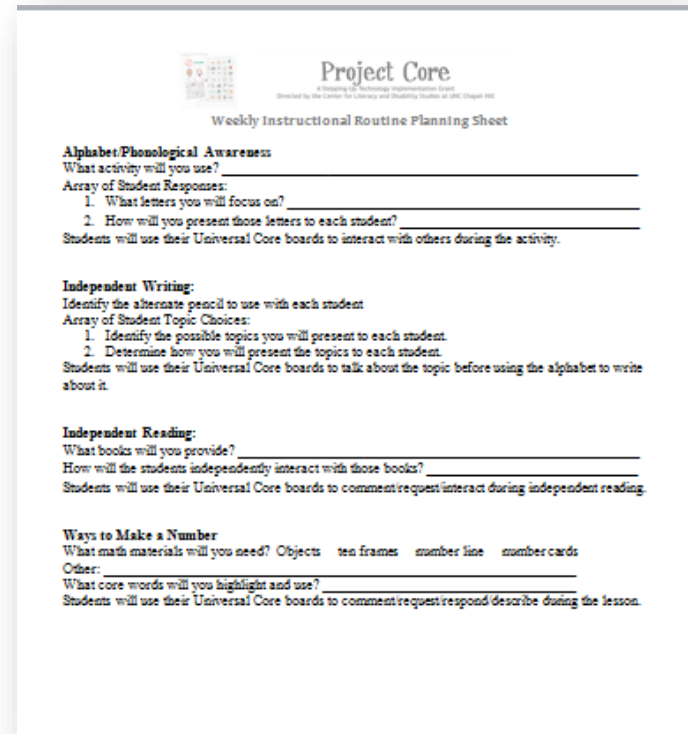
Maximize Opportunities: Daily Routines

- 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.



Project Core
A Project of the Center for Literacy and Disability Studies
Directed by the Center for Literacy and Disability Studies at UNC Chapel Hill

Weekly Instructional Routine Planning Sheet

Alphabet/Phonological Awareness
What activity will you use? _____
Array of Student Responses:
1. What letters you will focus on? _____
2. How will you present those letters to each student? _____
Students will use their Universal Core boards to interact with others during the activity.

Independent Writing:
Identify the alternate pencil to use with each student
Array of Student Topic Choices:
1. Identify the possible topics you will present to each student.
2. Determine how you will present the topics to each student.
Students will use their Universal Core boards to talk about the topic before using the alphabet to write about it.


Independent Reading:
What books will you provide? _____
How will the students independently interact with those books? _____
Students will use their Universal Core boards to comment/request/interact during independent reading.

Ways to Make a Number
What math materials will you need? Objects ten frames number line number cards
Other: _____
What core words will you highlight and use? _____
Students will use their Universal Core boards to comment/request/respond/describe during the lesson.



Self-Evaluation and Observation

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



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SHARED READING SELF-EVALUATION & OBSERVATION

Reader: _____ Other Adults: _____

Students: _____

Book Title: _____


Date: _____ Time: _____ Observer: _____

Evidence	Yes	No	Comments
ALL students have an individual communication system that meets their access needs (e.g., Universal Core with partner-assisted scanning 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 communication systems <u>that are</u> similar to the students' individual systems.			
Adults provide adequate wait time and ask or encourage students to participate <u>page-by-page</u> .			
Adults recognize, respond to, and expand on student's efforts to participate and communicate.			
The adult reads with enthusiasm in a way that fosters a joy for reading			



Professional Development

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



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Professional Development Modules

Project Core: An Overview
Participants will gain greater understanding of the Multi-Tiered System of Augmenting Language and the characteristics of the Universal Core Vocabulary. The underlying philosophy of Project Core, the current state of the project, and additional online resources will also be discussed.
[Online Self-directed Module](#) [Facilitated Module Materials for Groups](#)

Core Vocabulary: A Universal Solution
Participants will learn about core vocabulary, the Universal Core words, formats, instructional expectations, and the value of instruction within natural environments. Participants will also be able to distinguish between words of wide-ranging and restricted purposes, as well plan for communication interactions.
[Online Self-directed Module](#) [Facilitated Module Materials for Groups](#)

NAVIGATION

- [Project Core Home Page](#)
- [About Project Core](#)
- [Presentations and Publications](#)
- [Professional Development Modules](#)
- [Universal Core Vocabulary Communication Systems](#)
- [Materials Exchange](#)
- [Haynes-Inman](#)
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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.

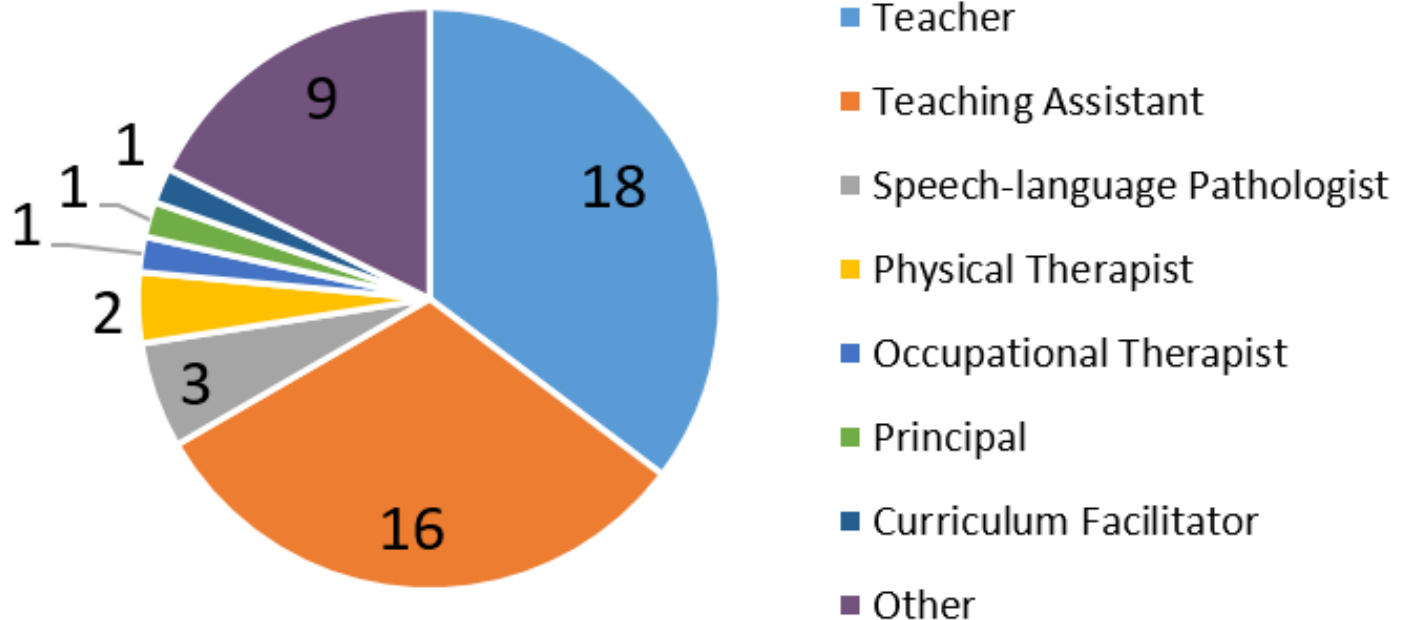


Descriptive Data

Year 1 Review



Professionals ($n=51$)



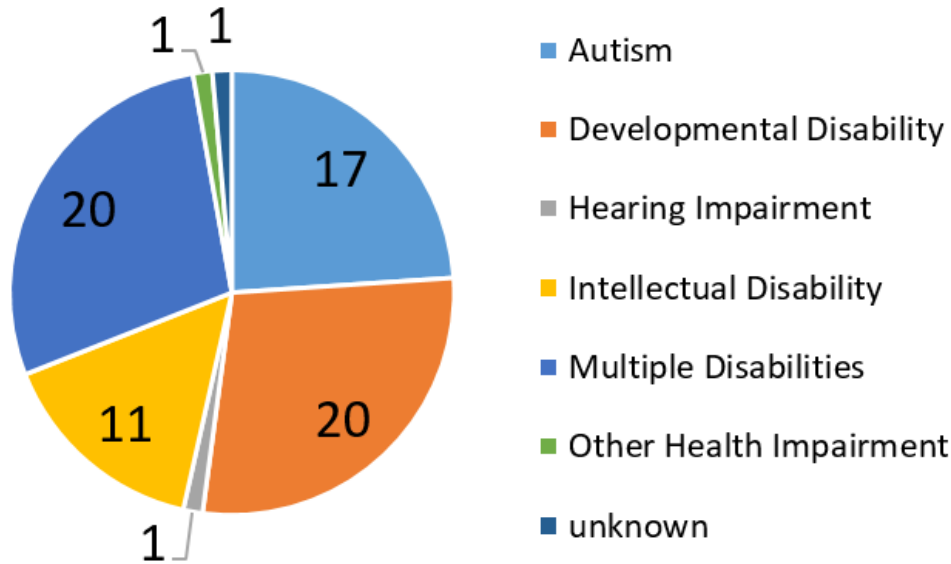
On average, participating teachers have several years of experience ($n=16$; $M=13$ years; $SD=8$ years)

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

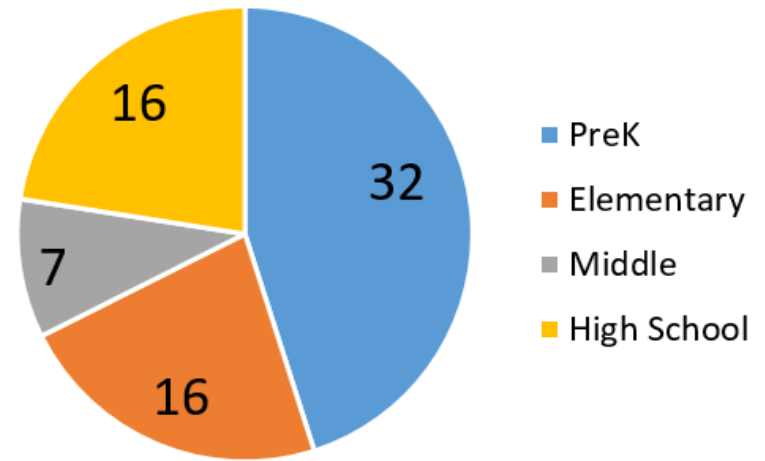


Students ($n=71$)

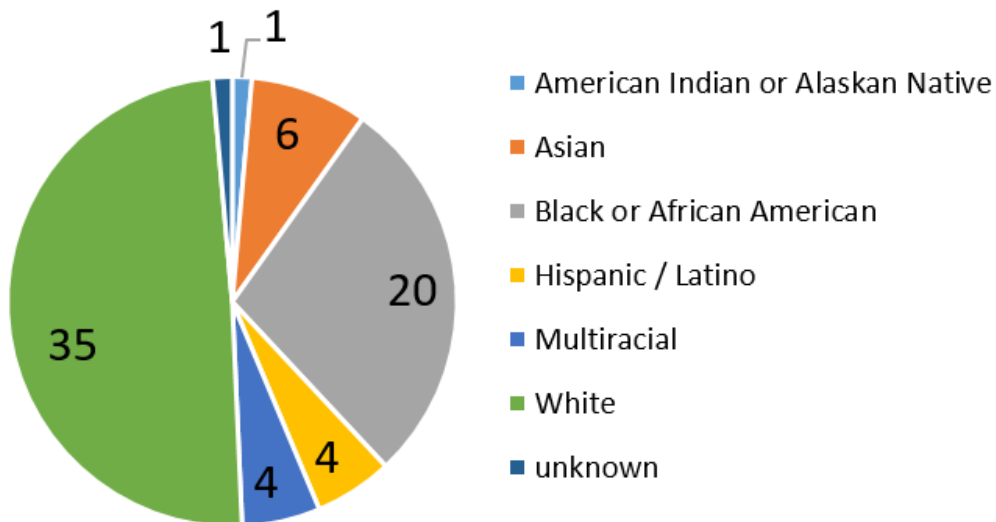
Disability Category



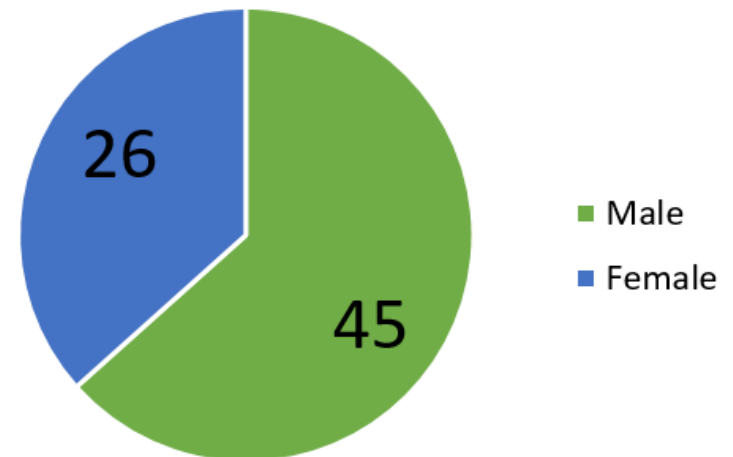
Grade



Race / Ethnicity



Gender

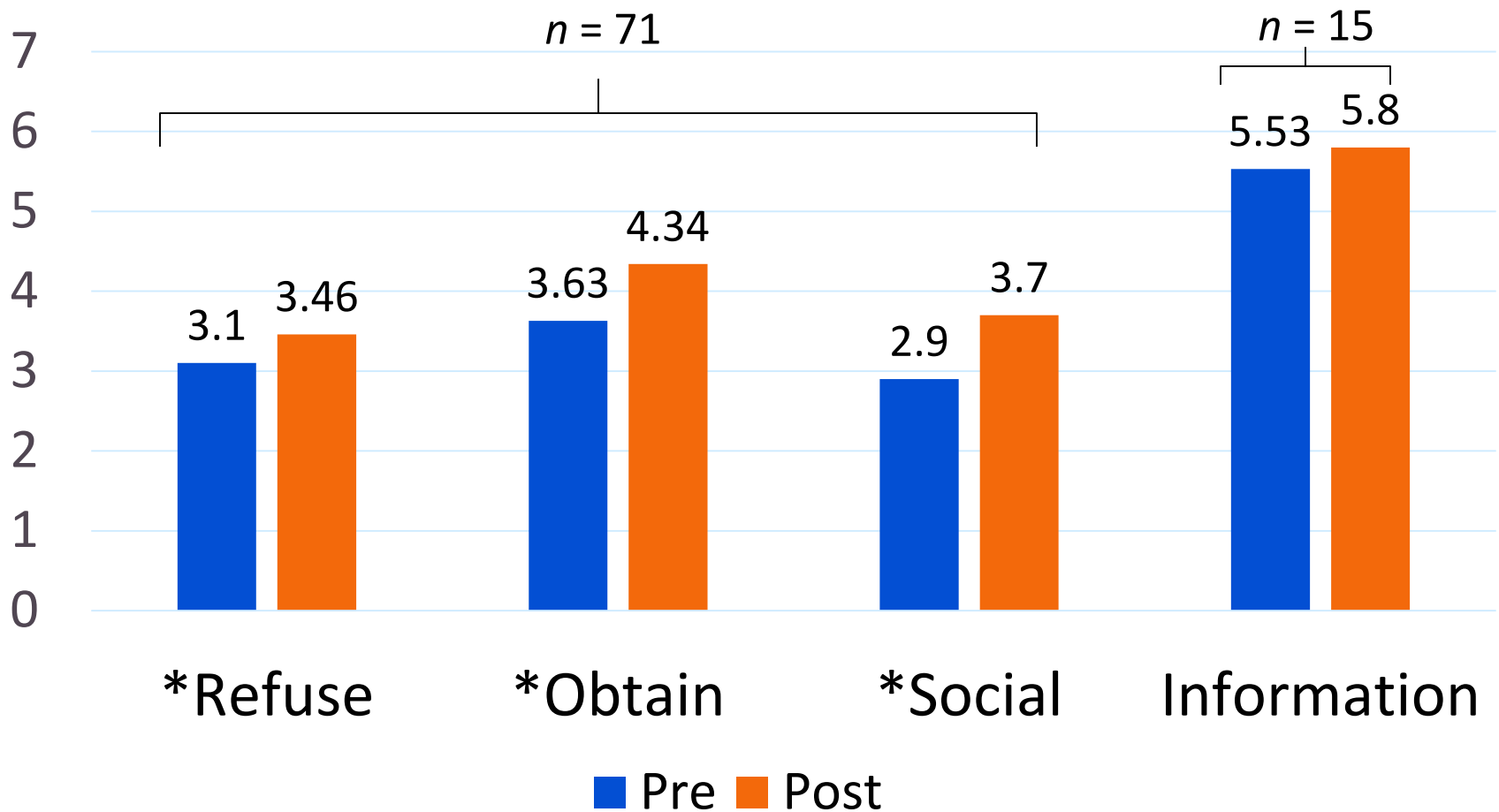


Communication Matrix

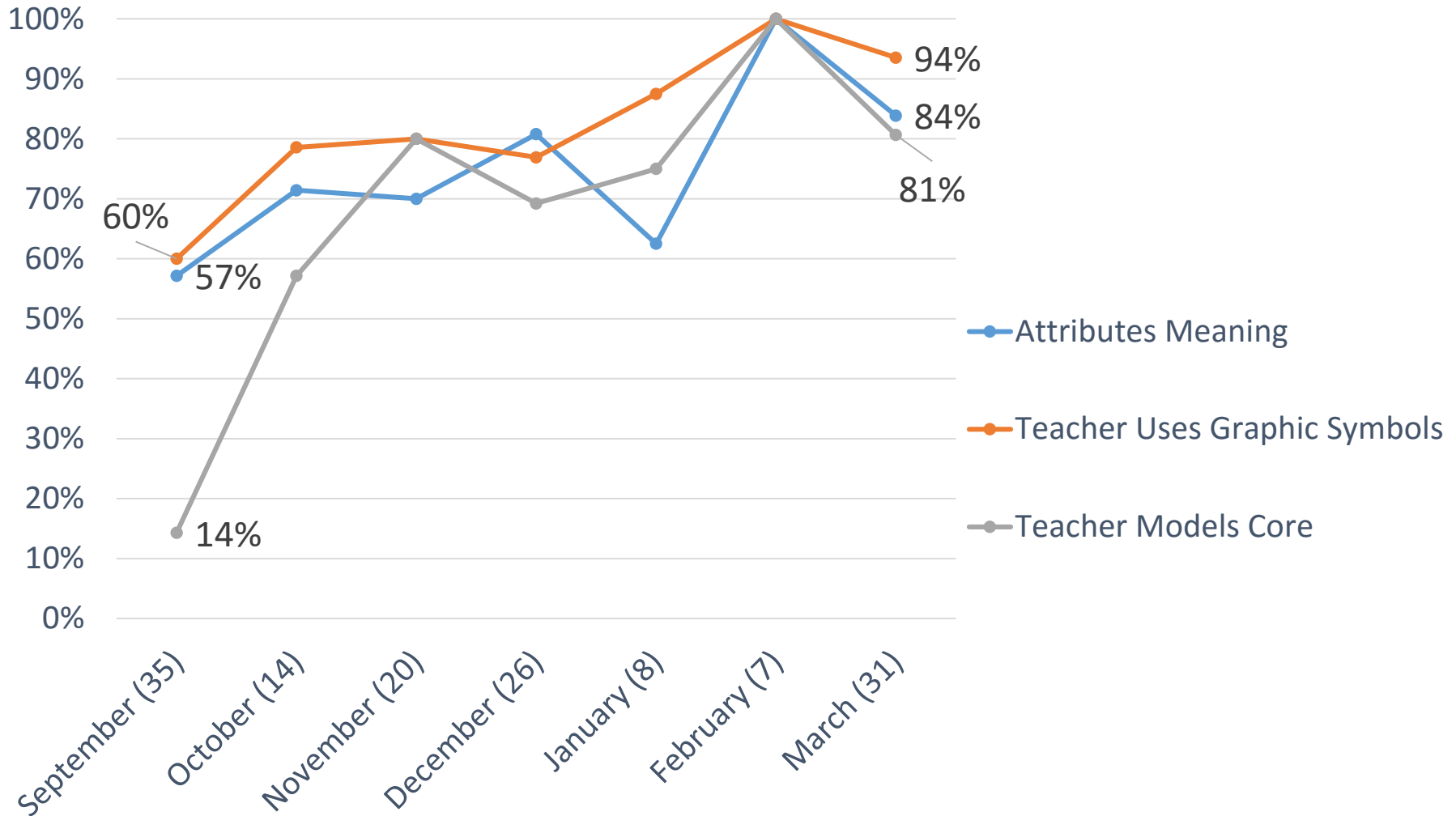
- Communication Ability Levels (1-7)
- 4 basic reasons for communicating
 - Refusing
 - Obtaining
 - Social connection
 - Providing or seeking information



Change in Average Ability Level

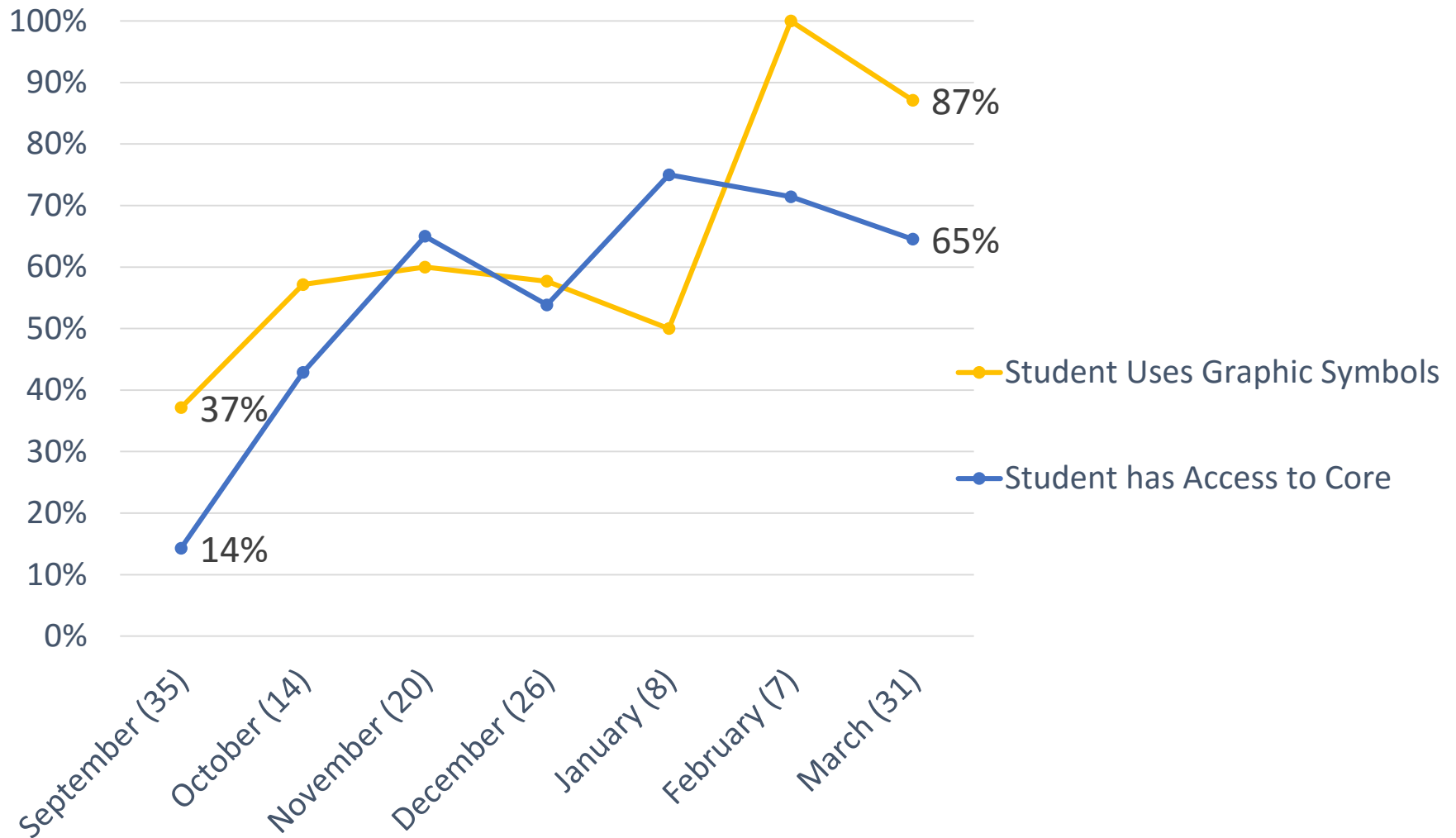


Classroom Observations: Teacher Behaviors



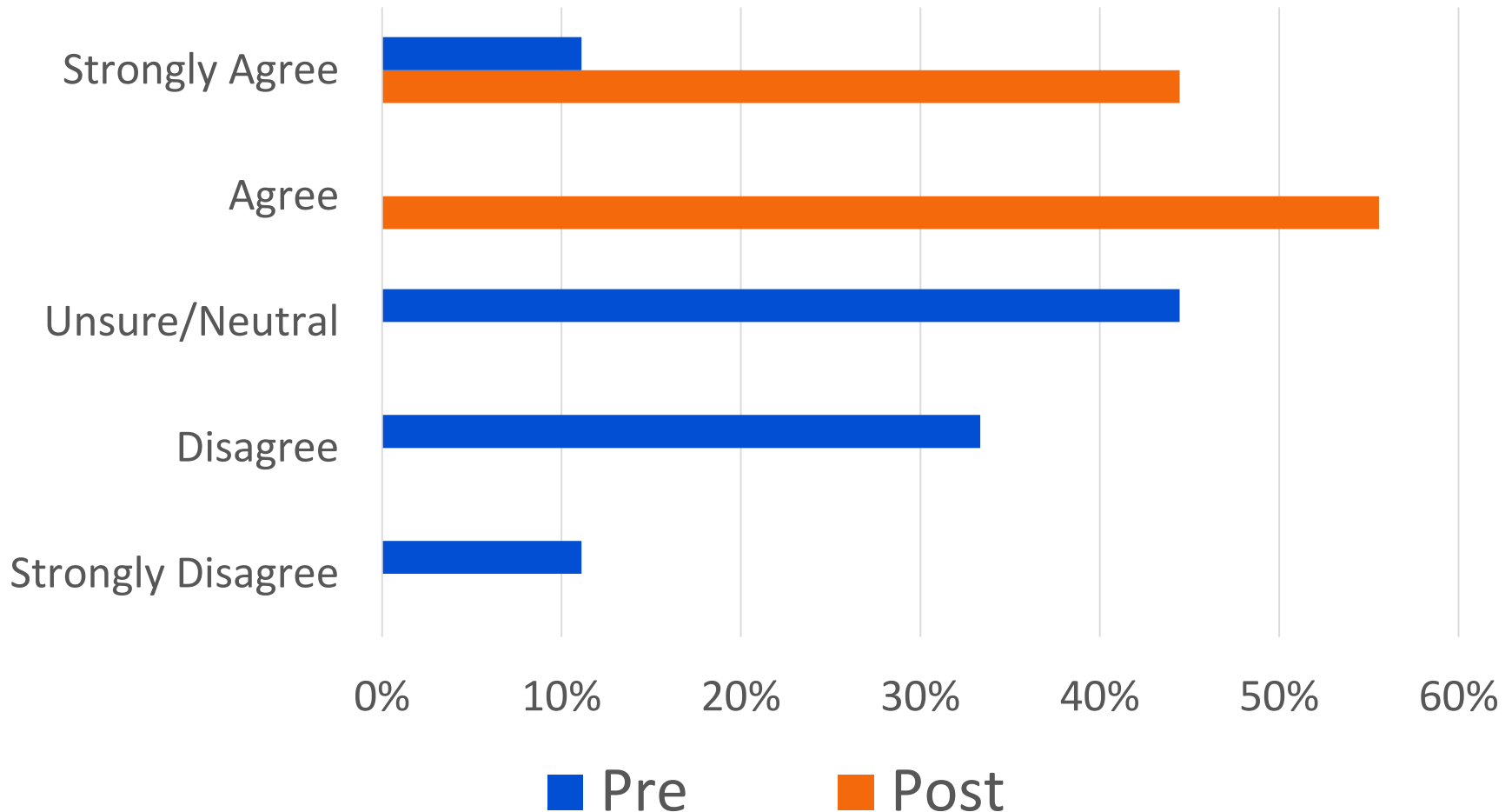
* Number in parentheses is the total number of observations

Classroom Observations: Student Access and Use

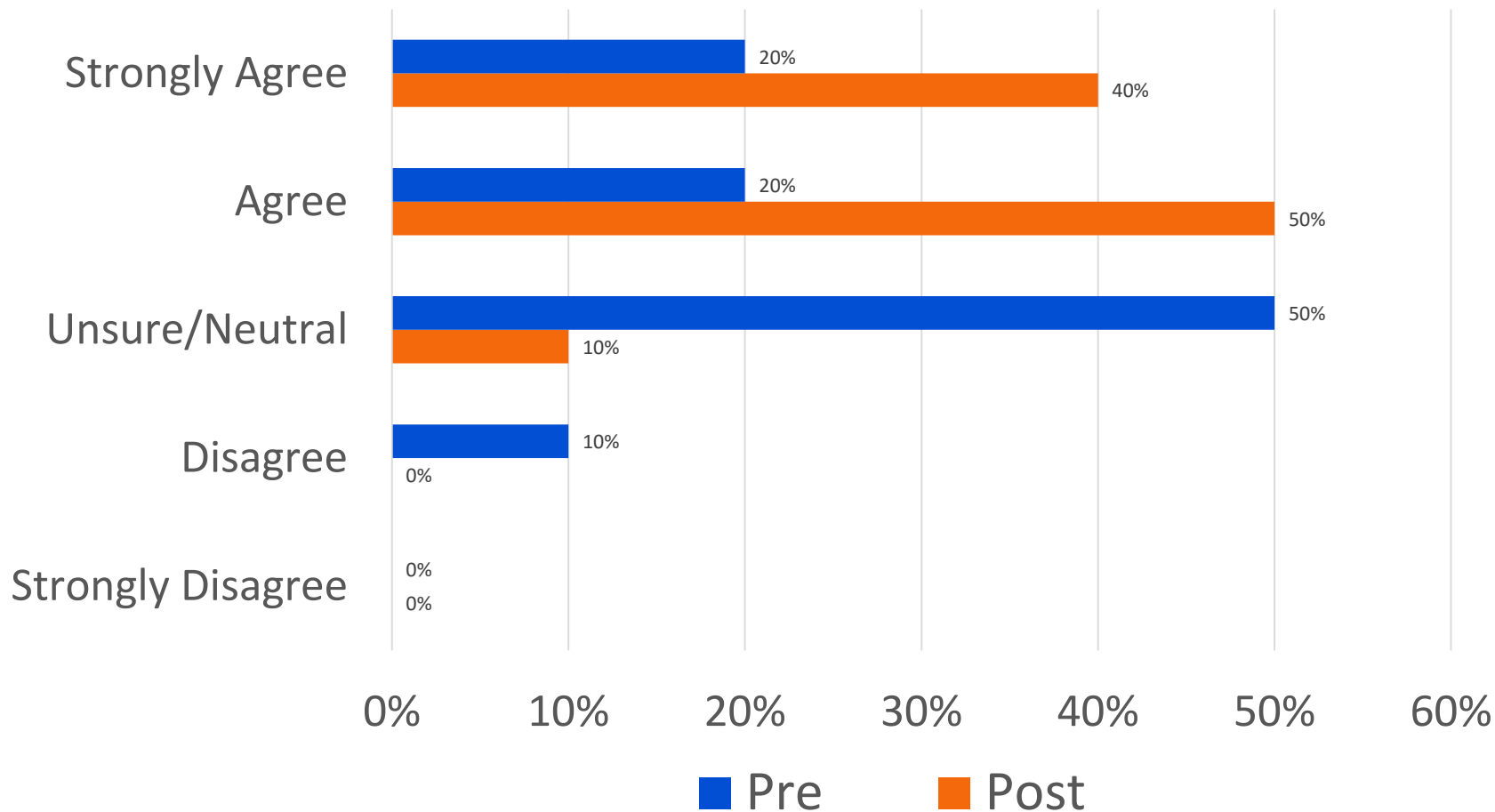


* Number in parentheses is the total number of observations

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

- Universal Core vocabulary formats
- 3D symbol files
- Selection tool
- 14 Professional Development Modules
- Instructional Planning Guides & Checklists
- Conference Presentations
- Project Overview



Research Team

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