


# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness


Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

Literacy and Communication for  
Students with Complex Multiple  
Disabilities including Visual Impairments  
or Deaf-blindness

Karen Erickson, Ph.D.  
Sofia Benson-Goldberg, M.S., CCC-SLP  
Getting in Touch with Literacy 2019  
Seattle, WA

 SCHOOL OF MEDICINE  
Allied Health Sciences

  
Center for Literacy  
and Disability Studies

1

## Disclaimer

This presentation was produced, in part, under U.S. Department of Education, Office of Special Education Programs Grant No. H327S140017 and No. H327S190005. The views expressed herein do not necessarily represent the positions or policies 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. & Benson-Goldberg, S. (2019). *Literacy and communication for students with complex multiple disabilities including visual impairments or deaf-blindness*. Presentation at the Getting in Touch with Literacy Conference, Seattle, WA.

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

2

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

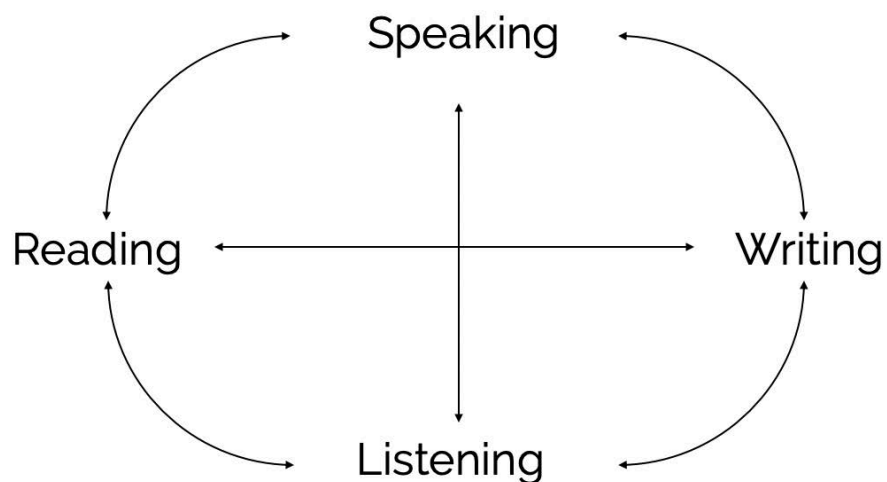
Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## The Connection Between Literacy and Communication

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

3



### Oral and Written Language Development

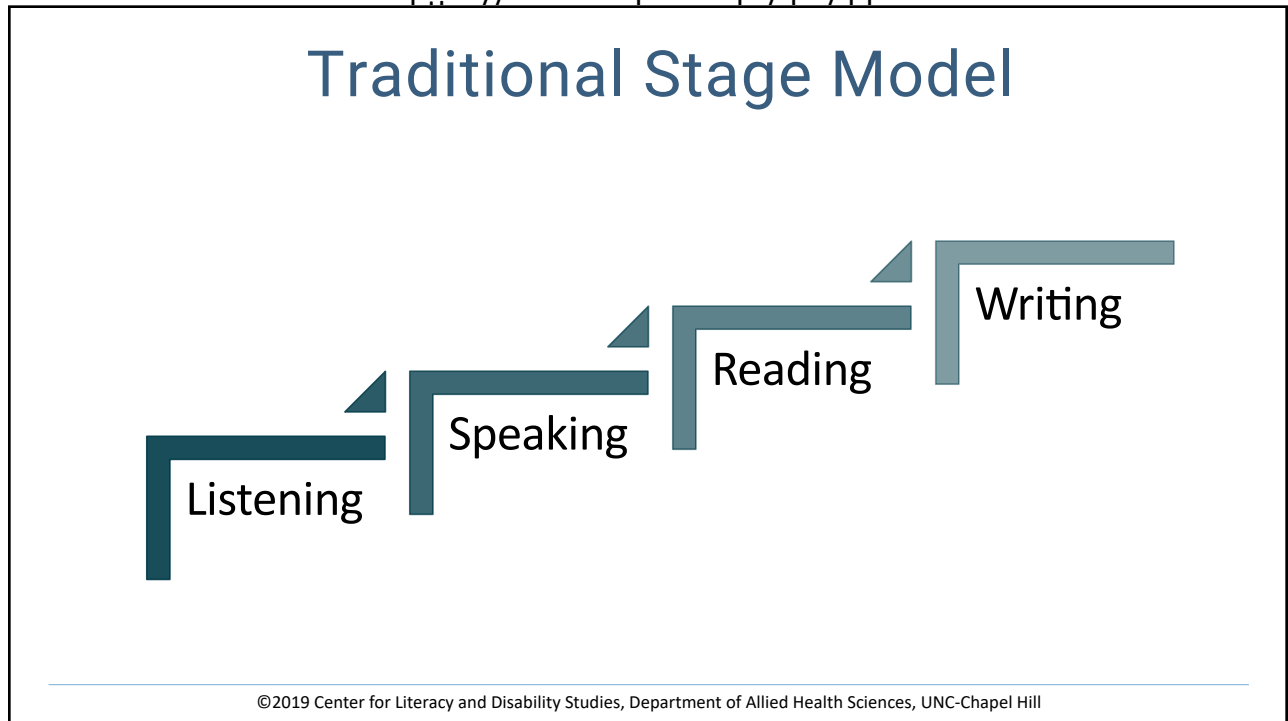
(Koppenhaver, Coleman, Kalman & Yoder, 1991  
adapted from Teale & Sulzby, 1989)

4

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg


Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill




5

## Augmentative and Alternative Communication

The slide features a blue background with a white geometric pattern of interconnected lines forming a grid of irregular shapes. A white rectangular box is centered on the slide, containing the title 'Augmentative and Alternative Communication' in a dark teal font.

 **UNC** | SCHOOL OF MEDICINE  
Allied Health Sciences

  
Center for Literacy  
and Disability Studies

6

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## AAC Definition

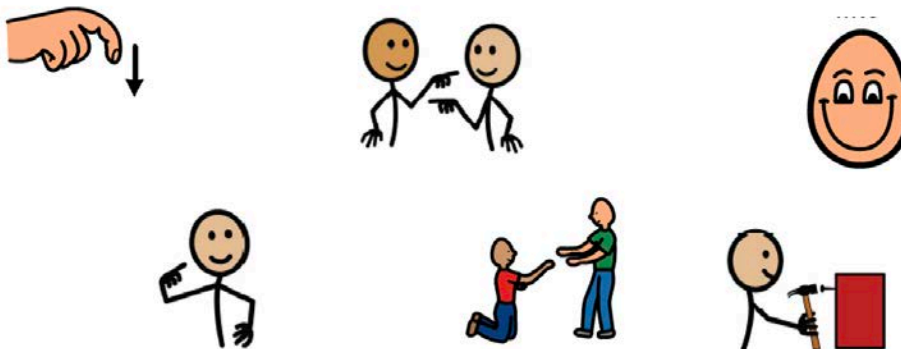
Any combination of aided or unaided communication modes including gestures, pictures, sign language, or voice output communication devices used as a supplement or alternative to oral speech.

(Glennen & DeCoste, 1997)

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

7

## Graphic Symbols



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

8

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Speech Generating Devices



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

9

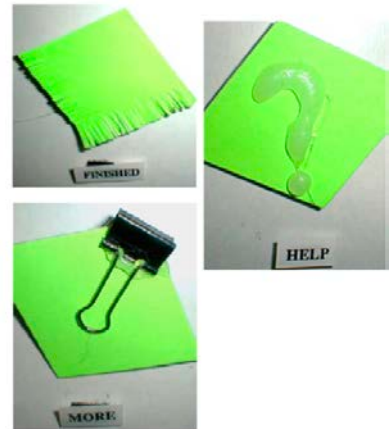
## Tactile Symbols



STACS



Tactile Connections



Texas School for the Blind  
Tactile Symbols

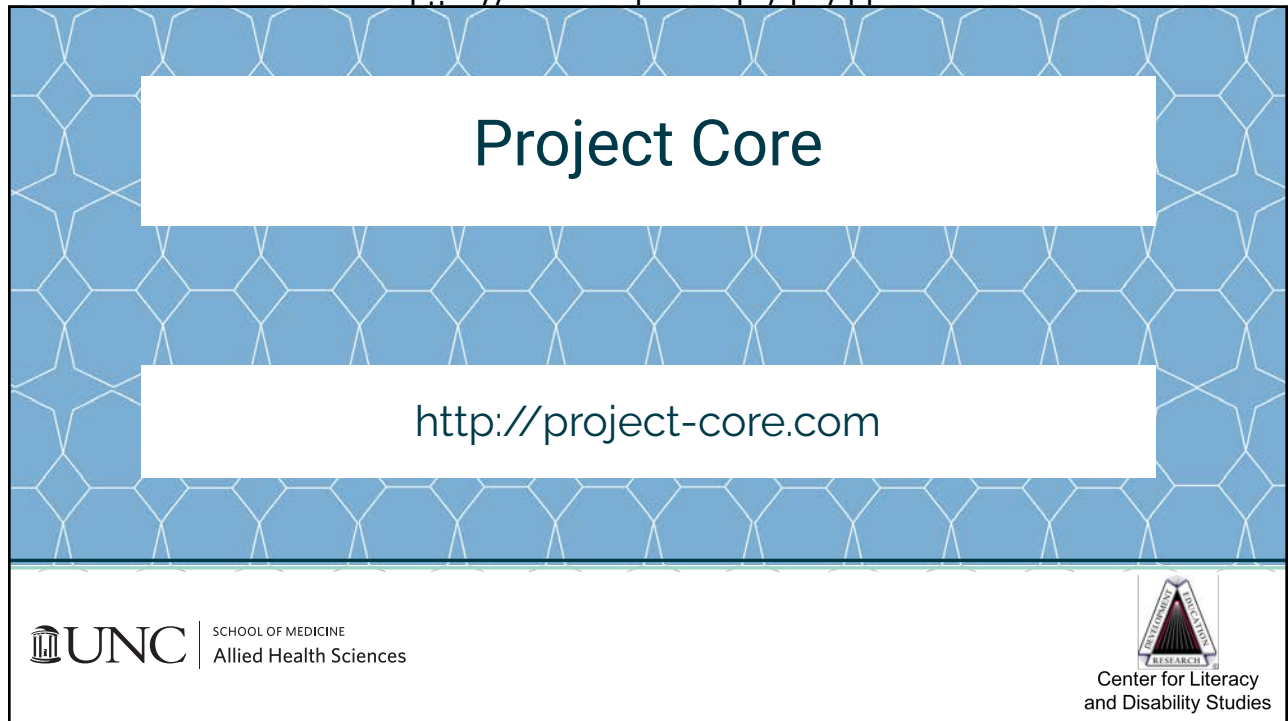
©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

10

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill



The slide features a blue background with a white geometric pattern of interconnected lines forming a grid of irregular shapes. Two white rectangular boxes are centered on the page. The top box contains the text "Project Core" in a dark blue, sans-serif font. The bottom box contains the URL "http://project-core.com" in a dark blue, sans-serif font. At the bottom of the slide, there is a white footer area. On the left side of the footer, the UNC logo is displayed next to the text "SCHOOL OF MEDICINE Allied Health Sciences". On the right side, there is a logo for the Center for Literacy and Disability Studies, which consists of a stylized triangle with the words "INTEGRITY", "INNOVATION", and "RESEARCH" written vertically along its sides.

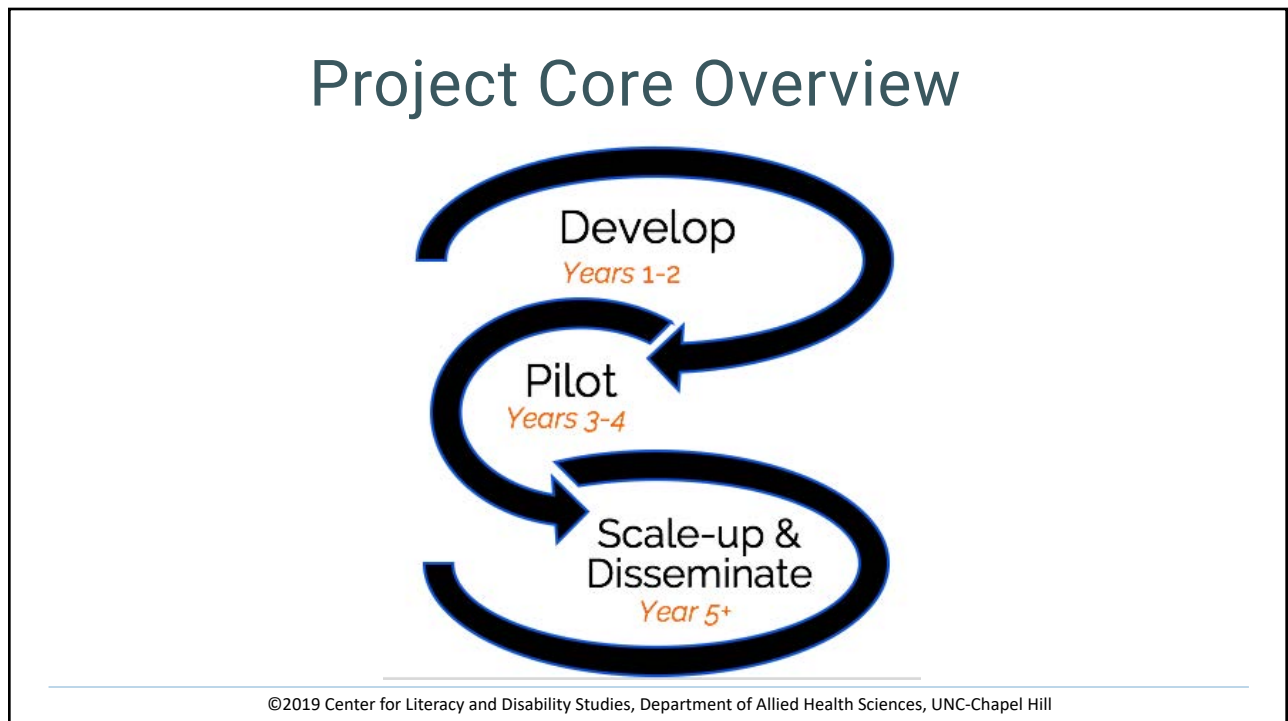
Project Core

<http://project-core.com>

UNC | SCHOOL OF MEDICINE  
Allied Health Sciences

Center for Literacy and Disability Studies

11



The slide has a white background with the title "Project Core Overview" centered at the top in a dark blue, sans-serif font. Below the title is a diagram consisting of three thick, black, curved arrows that form a continuous, downward-spiraling path. The top arrow points to the right and contains the text "Develop" in black and "Years 1-2" in orange below it. The middle arrow points to the left and contains the text "Pilot" in black and "Years 3-4" in orange below it. The bottom arrow points to the right and contains the text "Scale-up & Disseminate" in black and "Year 5+" in orange below it. At the bottom of the slide, there is a thin blue horizontal line, and below it, the copyright notice "©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill" is written in a small, black, sans-serif font.

Project Core Overview

Develop  
Years 1-2

Pilot  
Years 3-4

Scale-up & Disseminate  
Year 5+

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

12

## 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.
- Conceptual rather than referential vocabulary.

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

13

## Why Emphasize Core?

- **MANY** opportunities to teach and model each day, all day.
- Useful across settings, topics, purposes and people.
- Specialized and personalized/individualized vocabulary are important but provide far fewer opportunities to teach and model.
  - We are not replacing all of the good work being done to use vocabulary to orient and teach symbols as referents.
  - We are focused on EXPRESSIVE communication development.

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

14



# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## How does core relate to children with visual impairment?

15

## The Communication Matrix (Rowland)

Seven levels of communication

Four purposes for communication

Add complexity and symbolic forms without losing non-symbolic forms

About Concrete tangible symbols (Level 4)

16



# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## More About Symbolic Representation & Symbolism

- Joint attention on people & objects v. shared experience
- Focus on conceptual rather than representational vocabulary for expression
- Symbolism is important, but do students need to demonstrate symbolic understanding before we start using symbols?

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

17

## Universal Core Vocabulary

all	help	not	turn
can	here	on	up
different	I	open	want
do	in	put	what
finished	it	same	when
get	like	she	where
go	look	some	who
good	make	stop	why
he	more	that	you

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

18

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

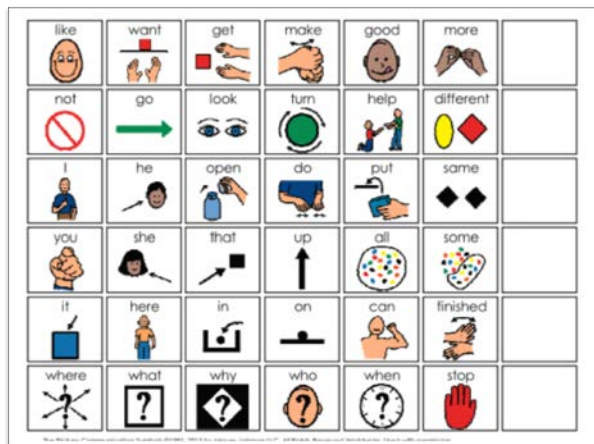
## Identifying the Universal Core Vocabulary

36 words

Meaningful as single words

Can be combined  
meaningfully

Useful across environments,  
activities, and interactions



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

19

## Universal Core Vocabulary Formats

36 location boards

- Individual use
- Classroom use

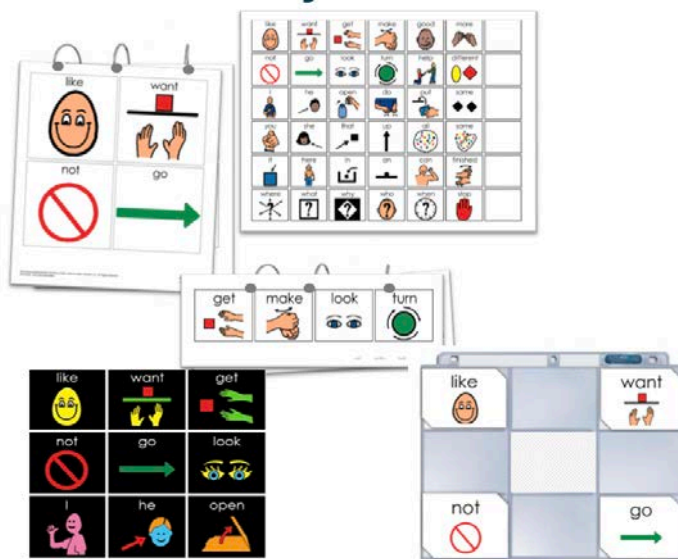
9 location X 4 pages books

4 location x 9 pages books

- 4 square (direct select)
- 4 in-line (partner-assisted scanning)

High Saturation/Low

Complexity versions for all



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

20

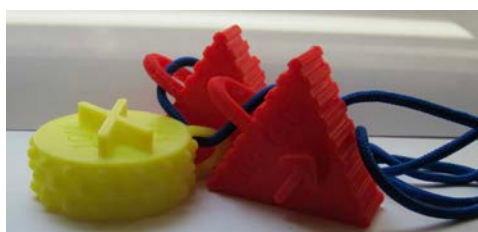
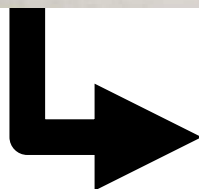
# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## History of the CLDS Tactile Symbols

CLDS  
Tactile  
Symbols



CLDS 3D  
Core  
Symbols

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

21

## 3D Symbols from Universal Core

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



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

22

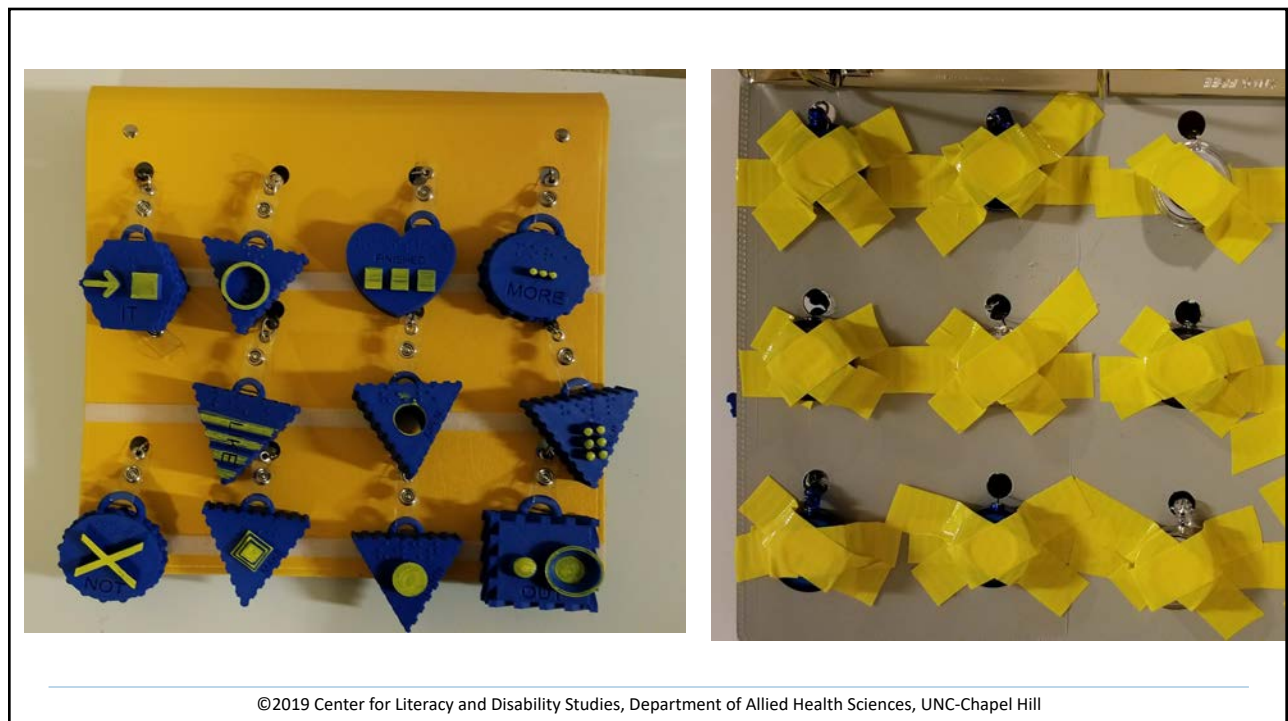
# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill



23



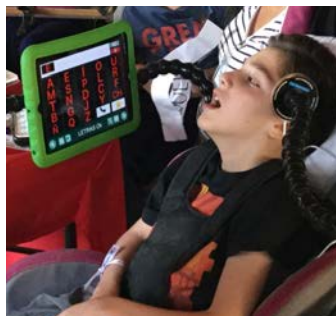
24



# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill



**Everyone communicates**



© 2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

25

## Evidence-based Practices

- Personal AAC Systems for All Students
- Attributing Meaning to Communication Acts
- Core Vocabulary
- Aided Language Input
- Naturalistic Teaching

See: <http://www.project-core.com/annotated-bibliography/>

© 2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

26

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## To teach AAC, good communication partners:

**Attribute meaning** to expressive behaviors.

Ensure **AAC systems** with useful vocabulary are available.

**Encourage communication**, without requiring it.

Offer **sufficient time** for students to respond.

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

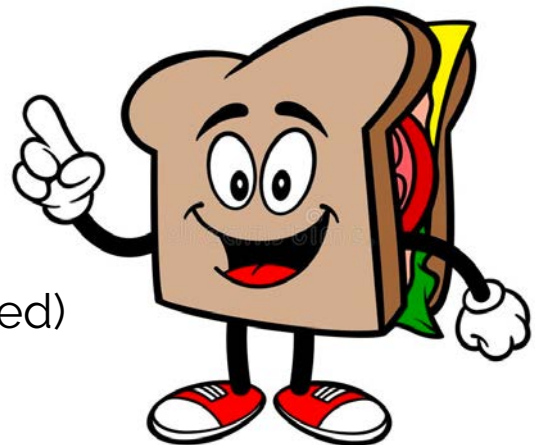
27

## 3D Symbol Sandwich

Experience

Symbol + Label (spoken or signed)

Experience



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

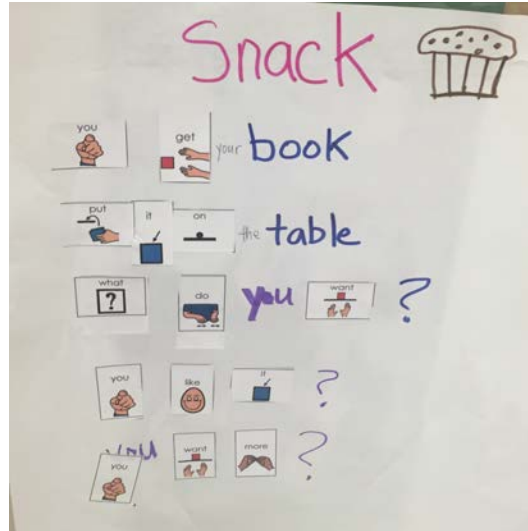
28

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Teaching Assistants' Contribution



© 2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

29

## Challenges

Adults used the Universal Core vocabulary to direct student behavior.

- This was also accomplished using single symbols removed from the system

Students did not consistently have access to Universal Core vocabulary systems

© 2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

30



# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Emergent Literacy



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

31

## Tools we use



FINGER LOCATION FOR THE PERKINS BRAILLER FOR CREATING THE BRAILLE ALPHABET



3	2	1	4	5	6	3	2	1	4	5	6
o	a					o	o	n	o	o	
o	o	b				o	o	o	p	o	
o	o	c	o			o	o	o	q	o	o
o	o	e	o	o		o	o	o	r	o	
o	o	f	o			o	o	o	s	o	
o	o	g	o	o		o	o	o	t	o	o
o	o	h	o			o	o	o	u	o	o
o	o	i	o			o	o	o	v	o	
o	o	j	o	o		o	o	o	w	o	o
o	o	k				o	o	o	x	o	o
o	o	l				o	o	o	y	o	o
o	o	m	o			o	o	o	z	o	o

Note: To change a letter from lower case to upper case, simply add a dot six in the cell before the letter. For easier reading - after printing this off, use a black or red felt-tip pen and color in the dots.  
 Merry Rose Charleston, MA, T11, NCHCTC  
 Teacher of Students with Visual Impairments  
 Orientation and Mobility



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

32

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## 5 Emergent Literacy Instructional Routines

- Shared Reading
- Predictable Chart Writing
- Independent Writing
- Alphabet and Phonological Awareness
- Independent Reading

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

33

## Instructional Routines Planning Form

- Instructional planning for 5 common instructional routines.
- Model that can be applied to other routines/lesson plans.

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

34

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Self-Reflection and Observation

- Guide teachers' self-reflection on use of the practices and Universal Core vocabulary.
- Support peer, coach, administrator observations.
- Focus teachers on what's important when you demonstrate symbol use.

© 2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

35



## Shared Reading

"The interaction that occurs when a child and adult look at or read a book together."

Ezell & Justice, 2005

36

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Goals of Shared Reading

- Maximize Interaction
- Make Connections
- Comments *Not* Questions
- Students Lead
- Pause and Wait



## Personal Communication Systems





# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

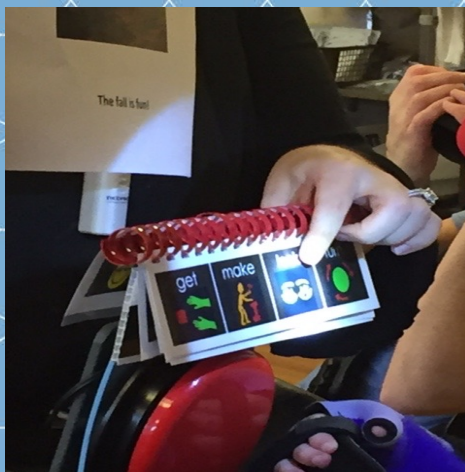
Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill



## Maximize Interaction

39



Comment using **CORE**

Keep Comments  
Simple

40

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill



Comment,  
Pause, and  
**WAIT**

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

41



**Comment**  
**Ask for participation**  
**Respond**

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

42

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill



## Comment and wait

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

43



## C Ask for participation and wait

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

44



# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill



**C  
A**

**Respond, repeat, add  
more, and wait**

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

45

"The interaction that occurs when a child and adult look at or read a book together." *Ezell and Justice, 2005*



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

46

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Concepts About Print

### Print knowledge

- Print as an object of meaning
- Book organization and conventions
- Alphabet knowledge
- Concept of word



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

47

## Adding Print/Braille Referencing

Interactive style of reading

Adult highlights features of print

### Verbal

Comments  
Questions  
Requests

### Non-verbal

Pointing  
Tracking Print

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

48

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Why is print referencing important?

- Print referencing supports print awareness skills
  - Print form
  - Print function
  - Letter Identification
- It builds understandings of the relationship between spoken and written language
- Print awareness leads to higher outcomes for future reading achievement.

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

49

## Recognizing a Challenge

Providing intervention and *assessing outcomes* for children with multiple disabilities

- Without natural speech
- Physical disabilities; including impacted manual dexterity
- Vision impairments
- Complex medical histories

***Historically limited access to symbol communication and interactions with print***

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

50

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Addressing the Challenge

- Eye-tracking
  - Established methodology for using eye-gaze systems to track visual attention to print (see Justice & Lankford, 2002; Justice, Skibbe, Canning & Lankford, 2005; Rayner, 1985)
- Digital children's books

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

51

## CDKL5

- Present with a combination of impairments
  - Motor
  - Cognitive
  - Sensory
  - Communication
- Paucity of research

*photos retrieved from  
<https://www.cdkl5.com/>*

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

52

## Cortical Vision Impairment (CVI)

Neurologically based vision impairment

- Characterized by:
  - Preference for specific color
  - Need or preference for movement
  - Difficulty with complexity
  - Visual field preferences
  - Non-purposeful gazing

Within CDKL5 incidence most recently reported at 75% (Demarest, 2018)

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

53

## Eye-tracking set-up: Commercial Products

PC laptop with Tobii PCEye Go

- Gazeviewer software
- Records eye-gaze and audio

Skype



---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

54

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Tarheel Reader

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

55

## Procedures

Baseline	Parent Intervention	Parent Implement Print Referencing
Read 6 unfamiliar books from Tarheel Reader	1:1 intervention with researcher over skype	Read more 6 unfamiliar books from Tarheel Reader
<i>2 weeks</i>	<i>30 minutes</i>	<i>2 weeks</i>

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

56

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

Before Print Referencing

UNC | SCHOOL OF MEDICINE  
Allied Health Sciences

Center for Literacy and Disability Studies

57

3

You can feel the wind and the breeze.

Back Next

*"You can feel the wind and the breeze.  
You like the breeze!"*

58




# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness


Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## After Print Referencing



SCHOOL OF MEDICINE  
Allied Health Sciences



Center for Literacy  
and Disability Studies

59



Garlic grows in the ground.

Back

Next

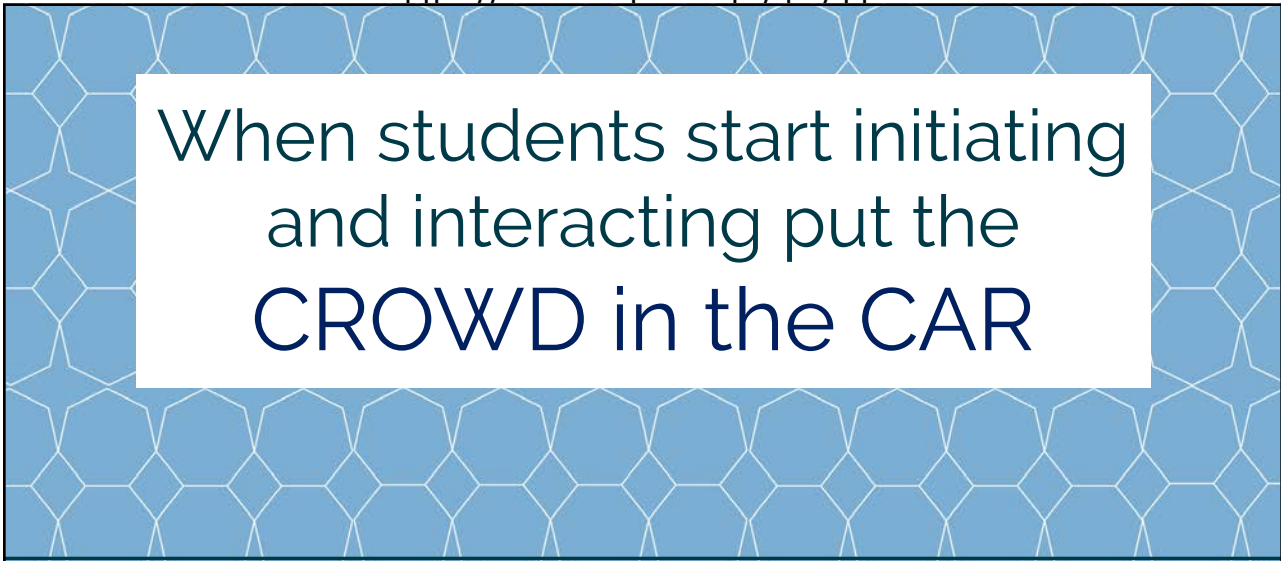
8

60

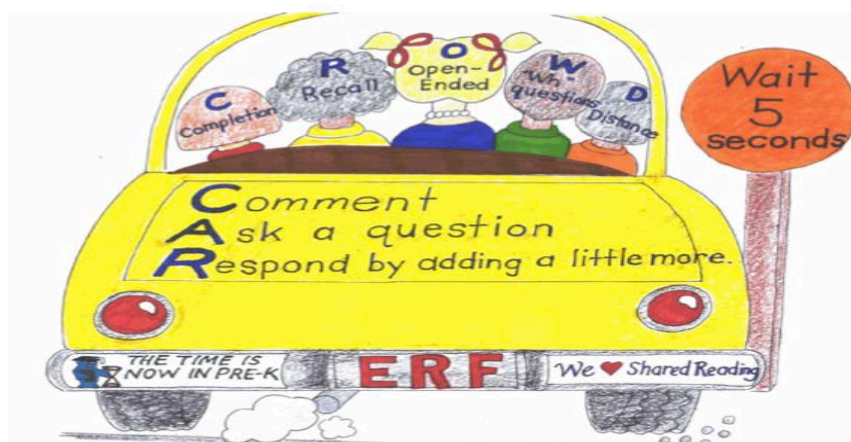
# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill



## Put the CROWD in the CAR



Corinne Gandy Watson, 2008

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## CROWD

Completion

Recall

Open-Ended

Wh- Questions

Distancing

Rotate through them  
as it makes sense!

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

63

## Completion

- Leave a blank at the end of a sentence and child fills it in.
- These are typically used in books with rhyme or books with repetitive phrases.
- Example, "Brown bear, brown bear, what do you see? I see a white dog looking at \_\_\_\_\_," letting the child fill in the blank with the word *me*.
- Completion questions help students begin to understand the structure of language in books.

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

64

## Recall

Questions about what happened in a portion of the book that has just been read.

Example, "*Tell me what the little truck did.*"

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

65

## Open-Ended

Questions that do not have specifically right/wrong answers.

Usually focus on the pictures in books.

Example, "*Tell me what's happening in this picture.*"

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

66

## Wh- Questions

Questions that begin with what, where, when, why, and how.

Typically focus on the pictures in books.

Example, "*What does the man have?*"

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

67

## Distancing

Questions that relate what is in the book to experiences outside the book.

Form a bridge between books and the real world.

Example, "You saw animals at the farm. What animal did you see at the farm?"

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

68

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill



## Selecting Books

- Possibility of rereading
- Illustration Independent
- Language complexity
- Interest-level

### Tom's in Trouble

DLM



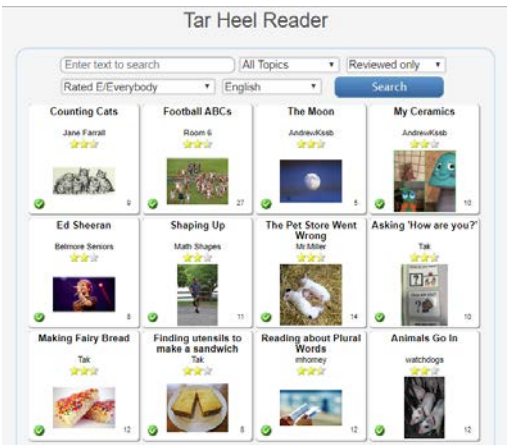
Tom Sawyer got in trouble all the time.



# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill





## Book Sources


- tarheelreader.org
- <http://www.dynamiclearningmaps.org/familiar-texts-im>
- <http://www.storyshares.org>
- <http://www.storylineonline.net/>
- <http://asp.tumblebooks.com/>
- The curriculum your school uses

71

## Read & Interact with Enthusiasm



 SCHOOL OF MEDICINE  
Allied Health Sciences

  
Center for Literacy  
and Disability Studies

72

## Shared Reading PD

<http://project-core.com>

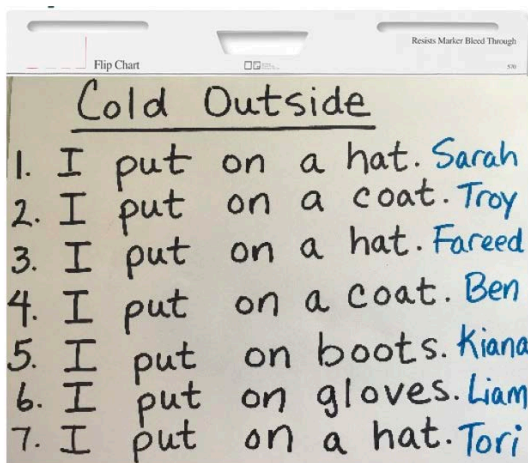
### Module

### Self-Reflection & Observation Guide

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

73

## What is predictable chart writing?



A multi-step group activity

Provides opportunities to teach:

- communication
- concepts about print,
- word identification, spelling, capitalization, and punctuation.

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

74

## How does it work?

Step 1: Write the chart.

Step 2: Reread/work with chart.

Step 3: Work with cutup sentence strips.

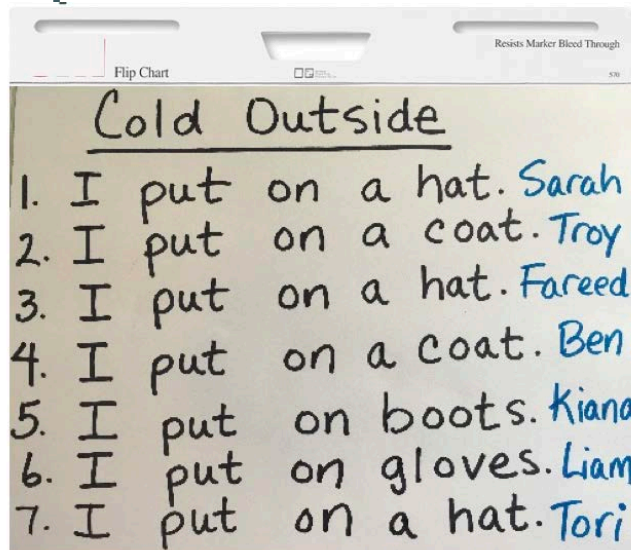
Step 4: Be the sentence.

Step 5: Make the book!

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

75

## Step 1: Write the Chart



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

76

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Choices



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

77

## “I put on mittens”



like	want	get	make	good	more	
not	go	look	turn	help	different	
<b>I</b>	he	open	do	<b>put</b>	same	
you	she	that	up	all	some	
it	here	in	<b>on</b>	can	finished	
where	what	why	who	when	stop	

The Picture Communication Symbols ©1981-2015 by Mayer-Johnson LLC. All Rights Reserved Worldwide. Used with permission.

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

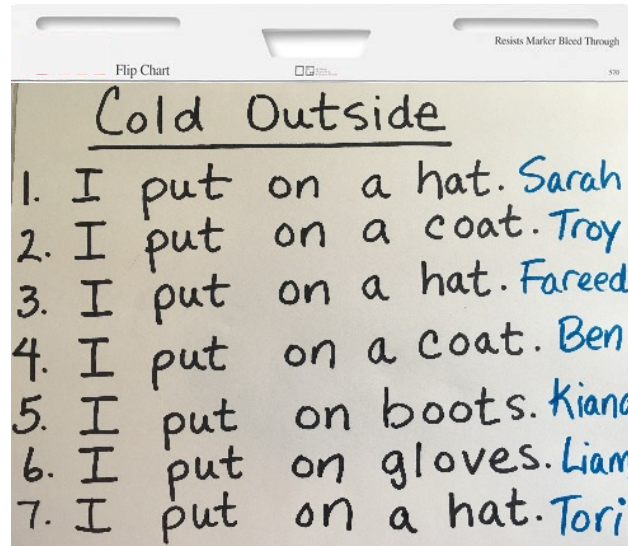
78

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Step 1: Write the Chart



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

79

## Repetition with Variety

I put on ...

- Colors on the Tree, Funny Costumes, Ice Cream Toppings ...

I like ...

- Favorite Sports, Pets, School Activities ...

I want to go ...

- Vacations, Field Trips, Restaurants

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

80

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

**What other topics could be supported by the sentence stem, "I put on...?"**

Start the presentation to see live content. Still no live content? Install the app or get help at [PollEv.com/app](https://www.pollEv.com/app)

81

## Step 2: Reread and Work with the Chart

- Reread chart to provide a good model
- Reread chart as a group
- Analyze chart for key elements
  - Students work on their communication

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill





































82



# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

like 	want 	get 	make 	good 	more 	
not 	go 	look 	turn 	help 	differen 	
I 	he 	open 	do 	put 	same 	
you 	she 	that 	up 	all 	some 	
it 	here 	in 	on 	can 	finished 	
where 	what 	why 	who 	when 	stop 	

83

## Step 3a: Read the Sentence

I put on boots.

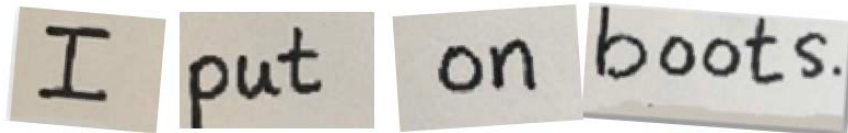
84

**Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness**

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Step 3b: Cut the Sentence into Individual Words

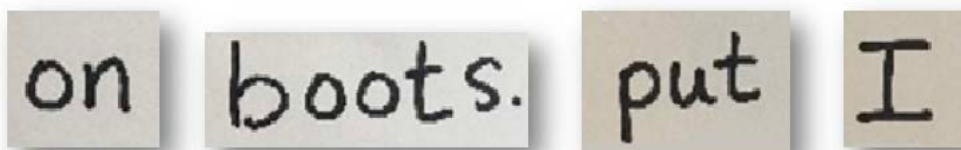


I put on boots.

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

85

## Step 3c: Recreate the Sentence



on boots. put I

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

86

## Step 4: Play Be the Sentence

Write each word from student sentences on individual pieces of paper.

If available, program single message devices.

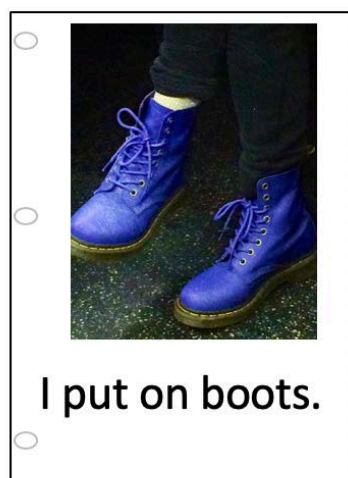
Work with students to create the sentences.

Read and reread modeling with core.

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

87

## Step 5: Make the Book



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

88

## Review: Sentence Stem

In predictable chart writing, the sentence stem is the most important part:

- It is the repeated part.
- It is the predictable part.
- It includes the words students will first learn to “say” using core.
- It is the first part students can learn to read and write.

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

89

## Planning for Predictable Chart Lessons

1. Plan chart title and the core-based sentence stem.
2. Identify *what* choices will be presented to students
3. Identify *how* choices will be presented and accessed by students.

Planning guides available from [www.project-core.com](http://www.project-core.com)

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

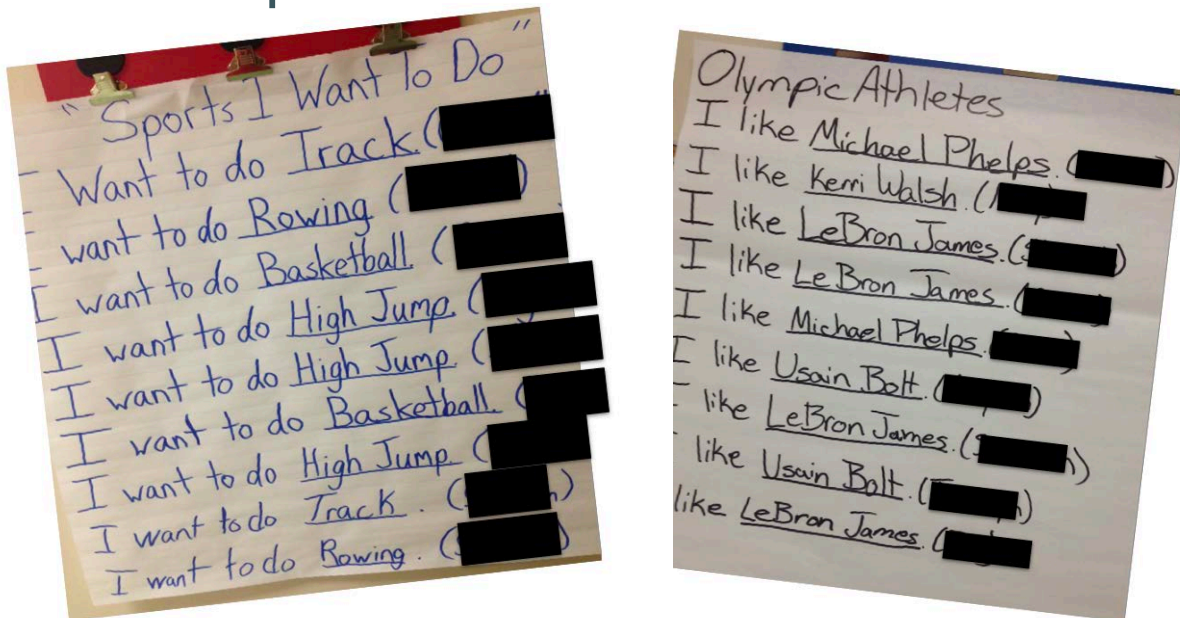
90

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Samples of Predictable Charts



91

## Predictable Chart Writing PD

<http://project-core.com>

Module

Self-Reflection and Observation Guide

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

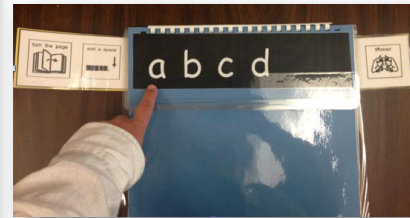
92

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

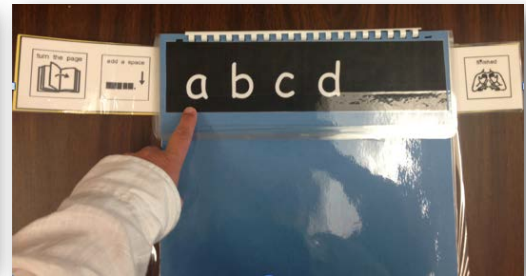
Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Independent Writing: Why is it important?



© 2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

93



*Writing with Alternate Pencils*  
at  
<http://dlimpd.com>

94



# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Learn by Use

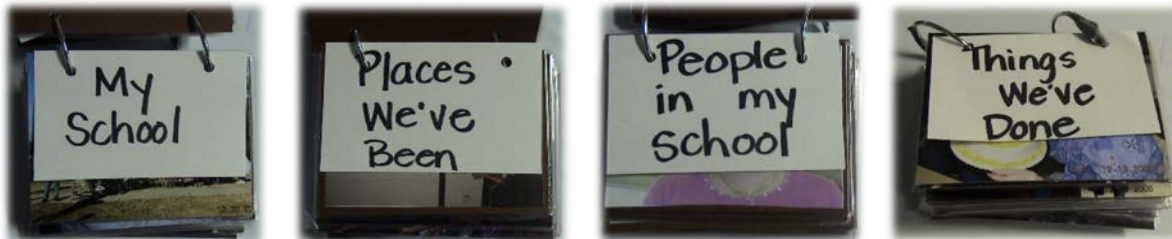


© 2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

95

## Topics

Provide students with choices of interesting and meaningful topics.



© 2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

96

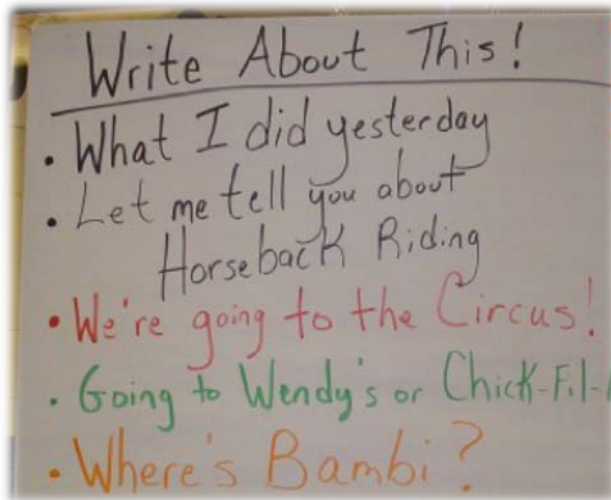
# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Presenting Topic Choices


- Symbols or drawings
- Photographs
- Remnants
- Written lists read to the student.



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

97

## Encourage communication about the topic

like 	want 	get 	make 	good 	more 
not 	go 	look 	turn 	help 	different 
I 	he 	open 	do 	put 	same 
you 	she 	that 	up 	all 	some 
it 	here 	in 	on 	can 	finished 
where 	what 	why 	who 	when 	stop 

The Picture Communication Symbols ©1981-2015 by Mayer-Johnson LLC. All Rights Reserved Worldwide. Used with permission.

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

98

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Write using letters!



© 2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

99



100

# Providing Feedback

## Home Journal Entry

September

**Topic:** Mom being gone for two weeks

iijskkllmwwwwyzzjjjjjkm

mmmuuuuvz

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

101

## What feedback might be helpful for Jake as a writer?

You wrote so many letters!

Tell me more about your mom.

Good writing.

I like what you've done here.

Start the presentation to see live content. Still no live content? Install the app or get help at [PollEv.com/app](https://pollEv.com/app)

102

**Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness**

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

**School Journal Entry**

January

**Topic:** Bingo Game (which Jake won!)

**gme fjw**

---

© 2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

103

**What feedback could you provide here?**

You were trying to write the word game.

Can you tell me some more about this?

Let me show you how to spell game.

I think the letters jw mean Jake won.

**gme fjw**

Start the presentation to see live content. Still no live content? Install the app or get help at [PollEv.com/app](https://PollEv.com/app)

104

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Feedback to Avoid

“Good writing.”

“You wrote a lot.”

“You chose many letters.”

“Let’s fix this.”

“Think about how you spell this word.”

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

105

## Planning Independent Writing

- ALL students have an individual communication system that meets their access needs.
- All students have an appropriate pencil.
- Prepare a variety of topic choices.
- Determine an accessible format to present topic choices.

Planning guides available from [www.project-core.com](http://www.project-core.com)

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

106



**Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness**

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

# Independent Writing PD

<http://project-core.com>

Module

Self-Reflection and Observation Guide

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

107

# Alphabet and Phonological Awareness



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

108

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill



Students Learn the Symbols We Teach

109

## Explicit and Embedded Instruction

Each day, teach alphabet and phonological awareness through a combination of explicit and embedded approaches.

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

110

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill


Teach letter names and sounds.

Teach upper and lower case.


Teach in meaningful contexts across the day.


©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

111



Make or select for writing

 **UNC** | SCHOOL OF MEDICINE  
Allied Health Sciences

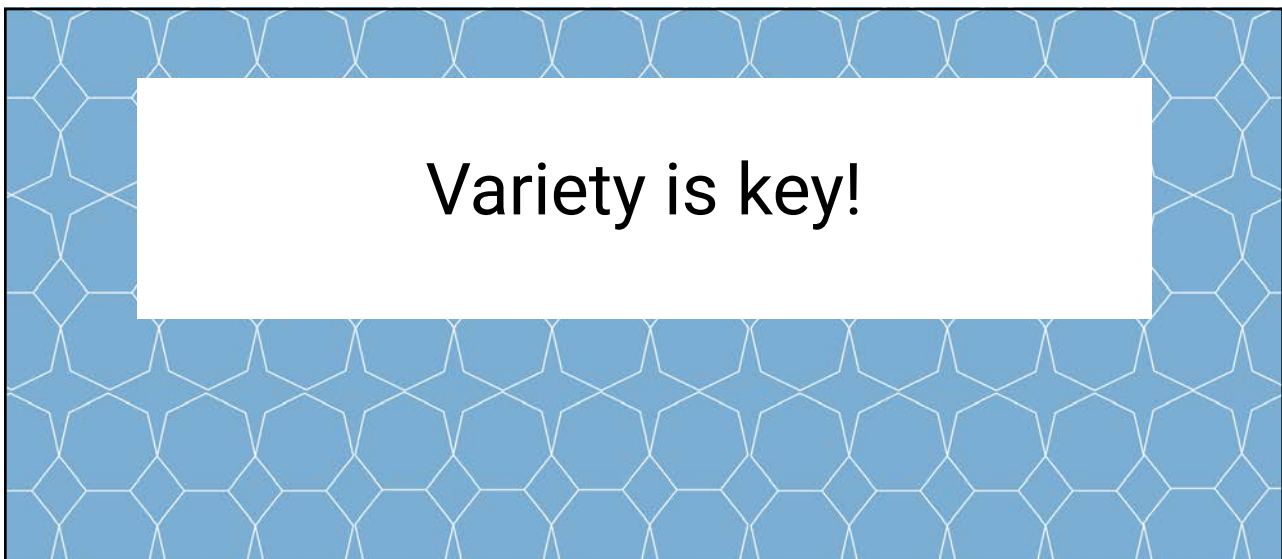
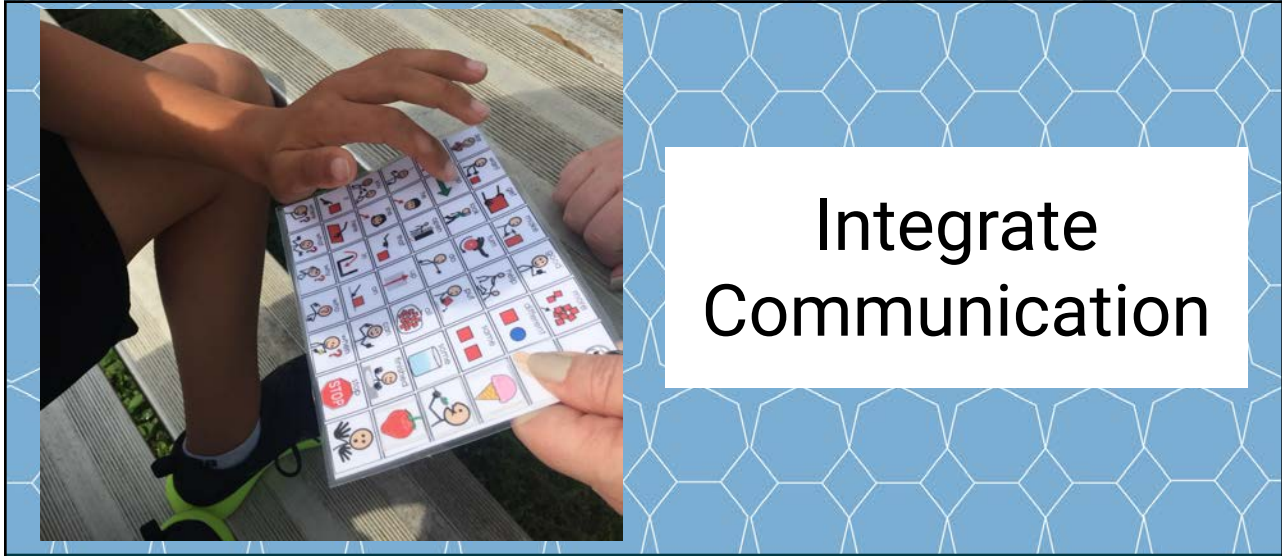
  
Center for Literacy  
and Disability Studies

112

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill



# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Teaching Alphabet Knowledge: Embedded

Read alphabet books

Point out letters and print in the environment

Talk about letters and their sounds when you encounter them in every day activities

Provide opportunities to play with letter shapes and sounds

Explicitly reference letter names and sounds in shared reading and writing activities.

Use mnemonics & actions

Use student NAMES!

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

115

## Point Out Letters in the Environment

116



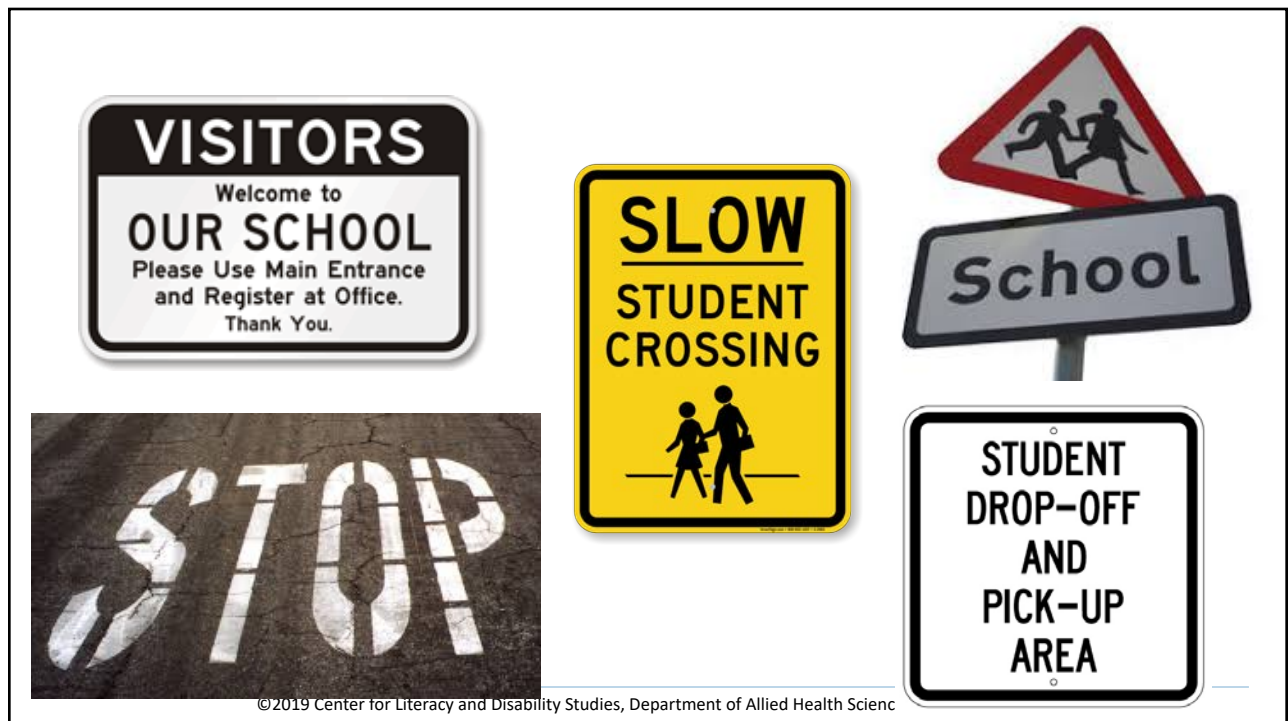
# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill



117



©2019 Center for Literacy and Disability Studies, Department of Allied Health Scienc


118



# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

WHAT'S FOR LUNCH?				
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Cheeseburger on Bun Lettuce/Tomato/Pickle French Fries Pineapple Chunks or Oranges <b>OR</b> Turkey Sandwich 	Chili/Chicken Noodle Soup Grilled Cheese/Crackers Salad/Pickles Diced Peaches or Apples <b>OR</b> Pimento Cheese Sandwich	Chicken Nuggets Mashed Potatoes Peas Wheat Roll Strawberries or Oranges <b>OR</b> Peanut Butter & Jelly Sandwich	Mini Corn Dogs Baked Beans Chips SideKick Slush or Apples <b>OR</b> Chef Salad	Pizza Corn Salad Applesauce or Bananas <b>OR</b> Yogurt Box (Yogurt, Mozzarella Cheese Stick and WG Gold Fish)

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

119



120

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness


Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

Schedule	
8:00-8:20	Morning Work
8:20-9:20	Math
9:20-9:30	Bathroom/Stretch
9:30-10:30	Groups
10:30-11:00	Music
11:00-11:40	Social Studies
11:40-12:30	Lunch
12:30-1:30	Language Arts
1:30-2:00	Centers
2:00-2:30	Science
2:30-2:45	Reflect/Pack up
	Dismissal

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

121



Play with Letter Sounds & Shapes

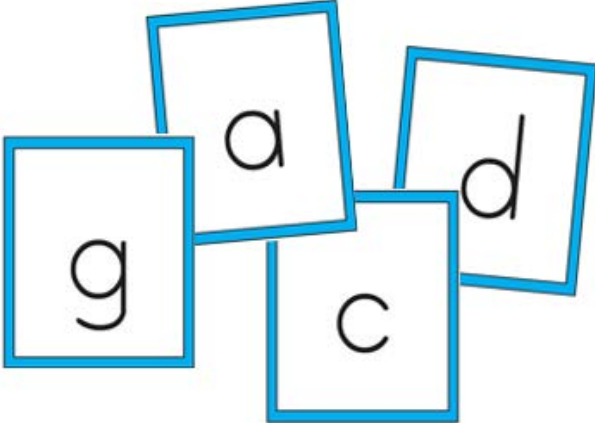
122

**Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness**

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Alphabet Cards




Four alphabet cards with blue borders and white backgrounds. The cards are arranged in a cluster. The letters on the cards are 'g', 'a', 'c', and 'd'.

- "Your turn"
- "Whose turn?"
- "Same"
- "Different"
- "Not!"
- "Go fish"
- "Put on"
- "Get more"

123

## Use Student Names



Four student name cards with colorful, pixelated borders. The names are written in cursive on white backgrounds. The names are 'Aida', 'Isabella', 'Santos', and 'Manny'.

- "You"
- "Same"
- "Different"
- "He"
- "She"

124

## A Structured Approach to Alphabet Instruction

125

## Enhanced Alphabet Knowledge Instruction

A seven-step approach to structure alphabet instruction

Jones, C., Clark, S., & Reutzell, D. R. (2013). Enhancing alphabet knowledge instruction: Research implications and practical strategies for early childhood educators. *Early Childhood Education Journal*, 41(2), 81-89. doi: 10.1007/s10643-012-0534-9

126

## Steps 1&2: Letter Identification

1. This is the letter (letter name). This is the upper case (letter name). This is the lowercase letter (letter name). (Show and/or write the letter, explaining the form.)
2. Let's practice naming this letter. What is this letter? (Point to uppercase and lowercase letters in different order at least 3 times asking students to identify the letter name.)

127

## Steps 3-5: Letter Sound Identification

3. This letter (letter name) represents the sound /letter sound/. When I say /letter sound/ I place my tongue and mouth like this. (Provide explanation/stories/key words to help students remember the sound.)
4. Let's practice saying this letter. The letter (letter name) represents the sound /letter sound/. Say the sound /letter sound/ with me. (Point to uppercase and lowercase letters in different orders at least 3 times asking students to identify the letter sound).

*Hint:* For vowels, teach the short vowel sound and explain when reading words the vowel letter represents its name or its sound.

128

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Step 5: Recognize the letter in text

5. Now, let's see if we can find the letter (letter name).
  - Students should locate the uppercase and lowercase letter in text and state the letter name and sound each time it is located
  - There are a number of alternatives for students to practice with recognizing the letter in text such as:
    - Sorting through magnetic letters/tiles to find particular letters
    - Identifying the letter in classmates names
    - Using a crayon to circle the letter in newspapers or magazines

129

## Steps 6 & 7: Producing the Letter Forms

6. Let me show you how to write the (letter name). Here's where I begin on the paper lines to write the letter (letter name).  
(Provide description and hints about how to write the uppercase and lowercase for of the letter).
7. Let's practice writing the letter (letter name) together.

Note: You can write the letter by selecting it from a keyboard or alternate pencil, but students should select from the entire keyboard not a closed set of a few letters.

130



# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Steps 6 & 7: Producing the Letter Forms

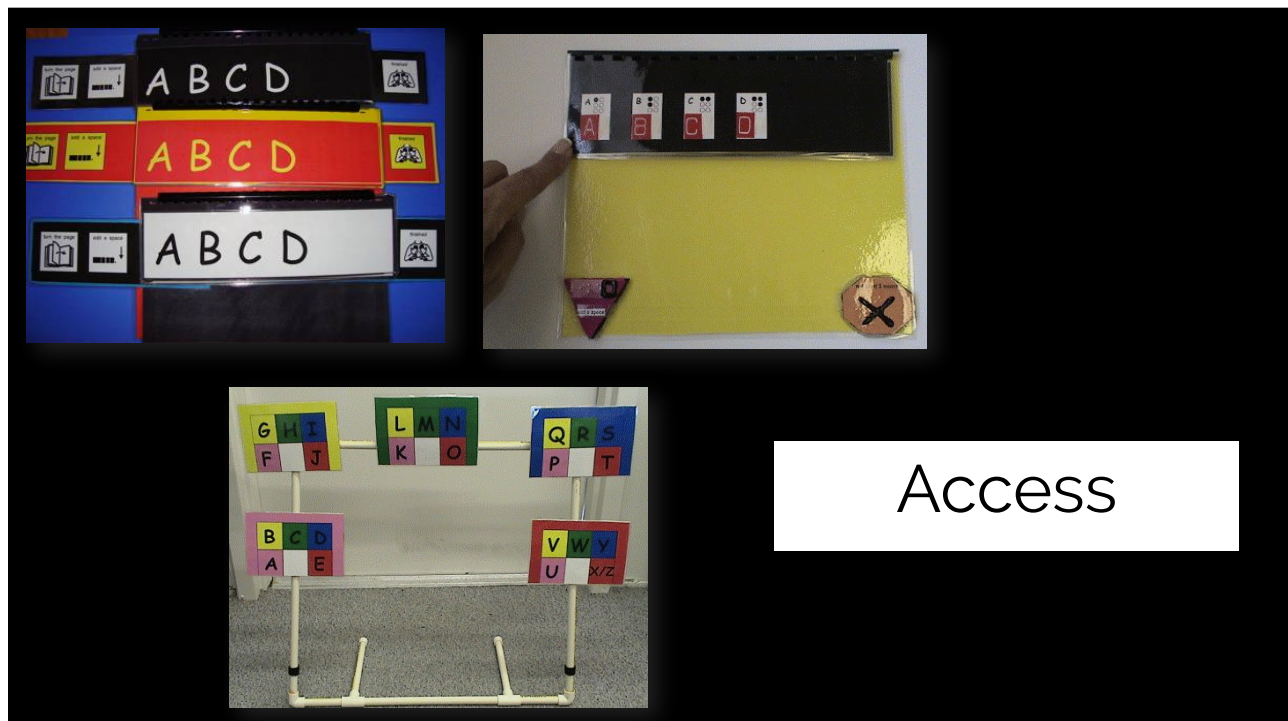
6. Let me show you how to write the (letter name). Here's where I begin on the paper lines to write the letter (letter name). (Provide description and hints about how to write the uppercase and lowercase for of the letter).
7. Let's practice writing the letter (letter name) together.

**Producing the letter can also use alternatives for practice such as:**

Producing the letter can also use alternatives for practice such as:

Write the letters on small white boards

131



132

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Build Phonological Awareness

- During alphabet instruction
- Raps, rhymes and poems
- Tongue twisters
- Sponge activities



## Alphabet Knowledge & Phonological Awareness PD

<http://project-core.com>

Module

Self-Reflection & Observation Guide

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Independent Reading



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

135

## Independent reading provides the opportunity to:

1. Sample and select appropriate and interesting books.

For information on options for accessible books, review the Independent Reading professional development module at [www.project-core.com](http://www.project-core.com)

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

136

## Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

### Independent reading provides the opportunity to:

1. Sample and select appropriate and interesting books.
2. Increase competence in sharing interest and excitement about reading.

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

137

### Independent reading provides the opportunity to:

1. Sample and select appropriate and interesting books.
2. Increase competence in sharing interest and excitement about reading.
3. Apply skills learned during other emergent literacy instructional routines.

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

138

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Ways to “Read” When You Can’t Read Yet



©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

139

## For Students with the Ability to Perceive and Understand Pictures

Use Books with Minimal Text and Supportive Illustrations

- Wordless picture books
- Personally meaningful pictures with simple captions
- Books with pictures that closely match the text

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

140

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness









Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## <http://tarheelreader.org>

Tar Heel Reader

Teens All Topics Reviewed only  
Rated E/Everybody English Search

<b>teen life # 29</b> drummer62595 ★★★★  7	<b>Teen Life #21</b> gsims ★★★★  7	<b>Teen Life # 20</b> maggie22 ★★★★  7	<b>Texting for Teenagers</b> Catt ★★★★  12
<b>We are Teenagers</b> AHS LS CLASS ★★★★  15	<b>Teenagers' Worries</b> Bang ★★★★  11	<b>I Can Help</b> LindaP ★★★★  9	<b>Don't try this at home!</b> linda h ★★★★  11

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

141



This is an old car.



This is a new car.



This is a red car.



This is a blue car.

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

142



# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Planning Independent Reading

- ALL students have an individual communication system that meets their access needs.
- Prepare a variety of reading choices that are age and ability appropriate.
- Determine an accessible format to present reading choices.

Planning guides available from [www.project-core.com](http://www.project-core.com)

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

143



144

# Independent Reading PD

<http://project-core.com>

Module

Self-Reflection and Observation Guide

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

145

What happens when instruction  
looks like this?

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

146

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

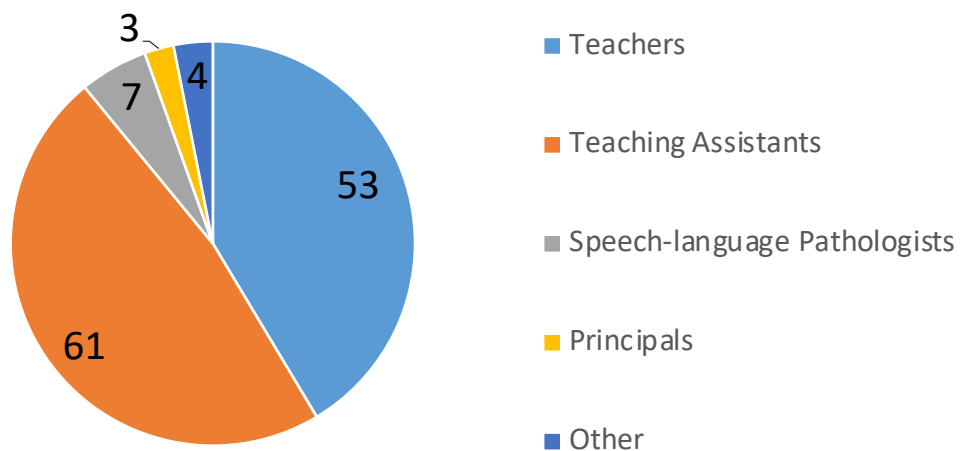
## During literacy routines, teachers were slightly more likely to:

	Literacy (n = 52)	Non-literacy (n = 70)
Students had individual access to Universal Core systems	35%	26%
Attribute meaning, label, & respond	41%	31%
Model using Universal Core vocabulary	61%	53%
Provide sufficient wait-time	63%	51%

© 2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

147

## Professionals (n=128, Pilot 3 Sites)



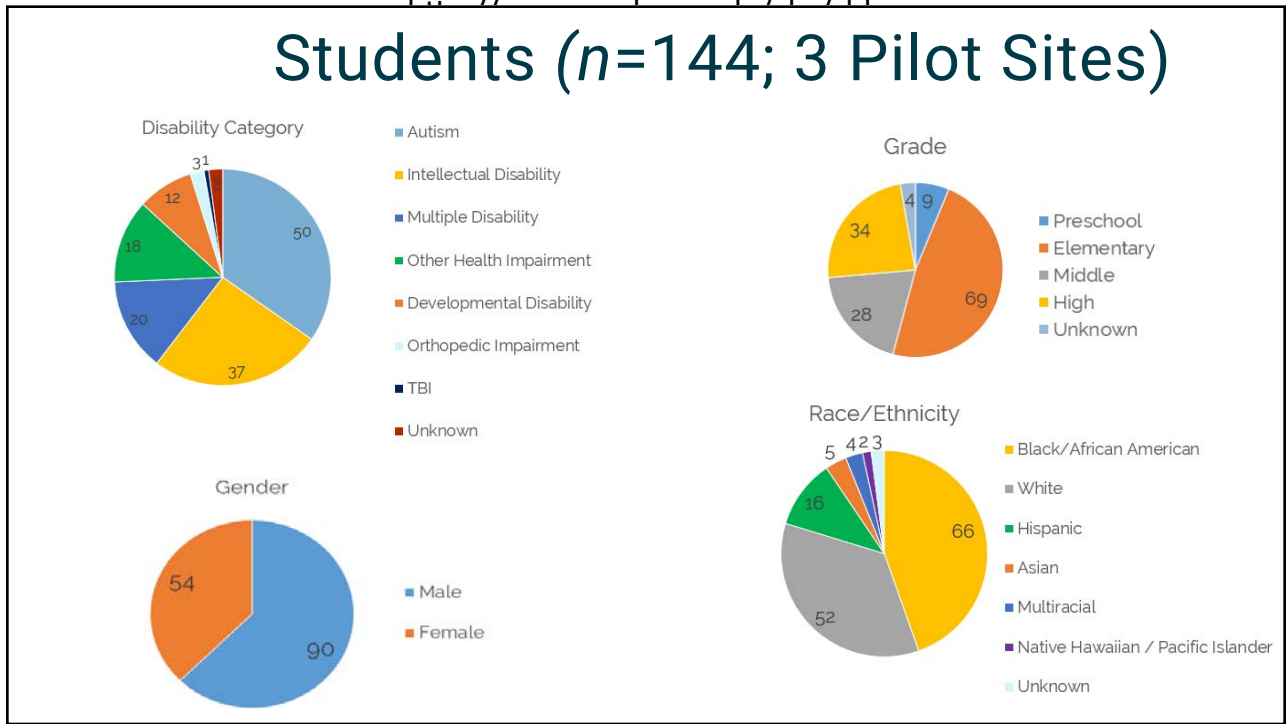
© 2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

148

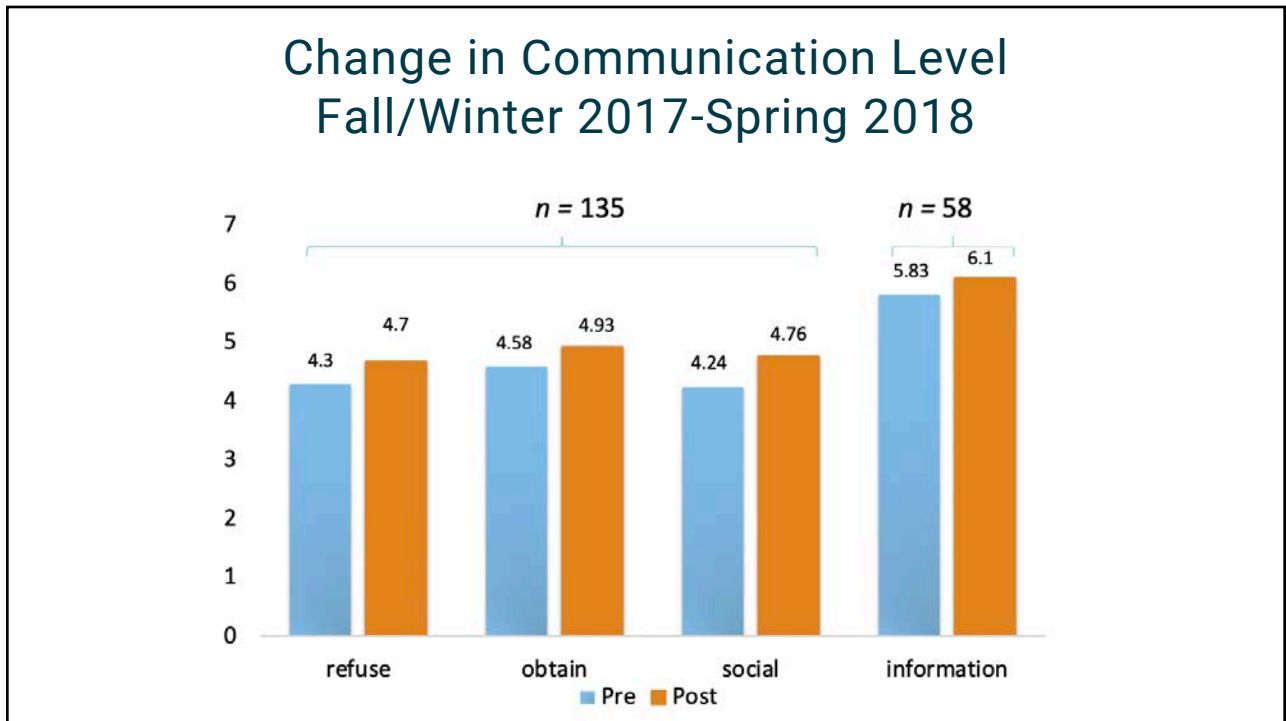
# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill



149

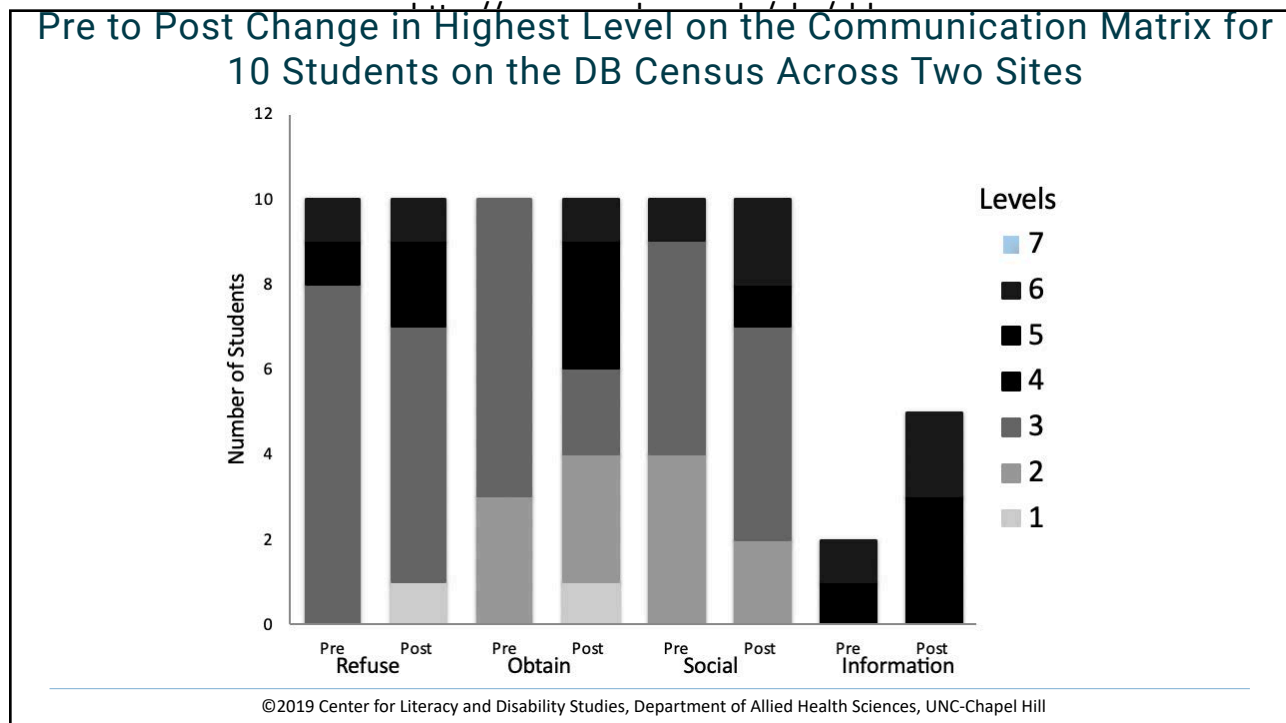


150

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill



151

## Pre/Post Comparisons

Statistically significant changes from pretest to posttest were noted on the Communication Matrix in two areas:

- Overall highest level of communication complexity (Wilcoxon signed-rank test)
  - $Z = -3.949, p < .001, r = .33$
- Total score on the 24 yes/no questions (Paired samples t-test)
  - $t(128) = -6.482, p < .0001, d = .57$

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

152

# Literacy and Communication for Students with Complex Multiple Disabilities including Visual Impairments or Deaf-blindness

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Summary

### Goals include:

- empowering teachers to teach communication using evidence-based practices embedded in common instructional routines.
- creating an implementation program that is not dependent on a specific curriculum.
- promoting symbolic communication development and academic success.

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

153

## Implementation Program Components [project-core.com](http://project-core.com)

Professional Development Modules

Instructional Planning Guide

Self-reflection & Observation Checklists for each of the 5 routines discussed today.

Universal Core vocabulary selection tool and downloadable print formats

1-page Implementation Resources and FAQs

Success Stories

---

©2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill

154



**Literacy and Communication for Students with Complex Multiple Disabilities including  
Visual Impairments or Deaf-blindness**

Karen Erickson & Sofia Benson-Goldberg

Center for Literacy & Disability Studies, Dept of Allied Health Sciences, UNC Chapel Hill

## Contact Information

### The Center for Literacy & Disability Studies

Department of Allied Health Sciences, UNC-CH

321 S. Columbia St, Suite 1100 Bondurant Hall

Chapel Hill, NC 27599

<http://www.med.unc.edu/ahs/clds>

---

© 2019 Center for Literacy and Disability Studies, Department of Allied Health Sciences, UNC-Chapel Hill