

# THE WRITTEN WORD MATTERS

- In demonstrating competence
- In school
- In employment
- In increasing one's own competence





IF WRITING IS SO IMPORTANT?

Why do we teach it like this?



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### WRITING IS HARD

It requires a complex amalgam of skills and knowledge that must be executed simultaneously.

Benjamin Systember Champaniky When it was the last game of the Champaniky On the first phy I fate Kondil it to the runnybuch but I can the kull. The part phy I paned it. The Datema sout it. The End



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### OUR LEARNERS ARE COMPLEX

- Language Development
- Motor Skills
- Reading Skills
- Social Skills
- Experience and Opportunities to Write



# AND EDUCATIONAL ENVIRONMENTS ARE COMPLEX

- Teacher knowledge
- Teaching procedures
- Emphasis on writing
- Opportunities to write
- Motivation



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## SHAKE UP THE WAY WE THINK ABOUT TEACHING WRITING

 Instead of an early focus on syntax, we focus on the interactions between a writer and the reader (that reinforces writing behavior)



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MEANINGFUL	
PREDICTABLE EXPLICITLY TAUGHT	







### MAYBE EARLY ON

- We teach students to exchange words for specified reinforcers
- Signing in and out of activities
- Writing messages to their peers
- Playing waiter
- Googling

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## TEACHING STRATEGY 1

- Present reinforcing stimulus
- Immediately present model (if student can copy) or use of other prompting procedure if not
- Read the work and immediately present reinforcers
- Fade prompts







### **"COPYING TO TEXT"**

- See-write relation
- It can be used as a prompt
- Typically developing children learn to copy environmental print



MAKE IT MEANINGFUL
DRAGONS CARS MONSTERS ALIENS SPACE SHIPS STAR WARS



## SPELLING IS TOUGH

- Whereas reading requires decoding of visual stimuli, spelling requires encoding.
- Requires-Reading of the word, knowledge of phonics and structural analysis, visualizing the word, recalling word from memory, motor capabilities
- Spelling should be taught in concert with word analysis (Henderson, 1990)



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"CHAINING"	) mik	<b>)</b> ,
Forward Chaining	Slide 1	Slide 2
<ul> <li>Purrazzella and Mechling (2013)</li> <li>Gradually increasing response requirement</li> <li>Time consuming</li> </ul>	J <sup>Ik</sup> Slide 3	500r4
<ul> <li>Might be best for teaching frequently used words (e.g., name)</li> </ul>	Side 5	(no lines) Side 6

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COPY-COVER-COMPARE				
<ul> <li>Copy cover compare</li> </ul>				
Present list of words				
Copy first word	L green	grates	gree.	Gritte
	2. blat	blue	blue	
Write from memory in col. 3	3. red 4. yallow	end getilow	rad Vello	Bettow
Check your answer and fix	5.Mack	Basie	blak	bieck.
		Fold here Caver		





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# THE SENTENCE

- Sentences are miniature compositions (Saddler, 2012)
- The serve to illuminate controlling variables for the emission of the sentence
- I saw a red bear?
- Can someone get me a gummy bear?
- There is a bear!

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### WRITING SENTENCES

- Know the rule that sentence names something or somebody and then tells more
- Can identify a sentence that follows the rule
- Completes a sentence about a picture
- Generates sentences that follow the rule
- Combine simple sentences to create more complex sentences



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A SENTENCE NAMES SOMEBODY Or Something and tells more About the Person or thing	
Kameenui & Simmons, 1990	



# SENTENCE WRITING SCOPE AND SEQUENCE

 Selecting sentences that name somebody or something and tell more about the person or thing depicted in the picture





## SENTENCE WRITING SCOPE AND SEQUENCE

 Generating sentences that tell the main thing that happened in a picture or series of pictures



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## SENTENCE WRITING SCOPE AND SEQUENCE

 Generating sentences that name somebody or something and tell more about the person or thing



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USING FRAMES AND SYSTEMATIC INSTRUCTION
Pennington, R. C., Forman, L. H., & *Gurney, B. N. (2018). An evaluation of procedures for teaching students with moderate to severe disabilities to write sentences. <i>Remedial and Special Education</i> , 39, 27-38.
Pennington, R. C., *Flick, A., & *Smith-Wehr, K. (In Press, 2018). The use of response prompting and frames for teaching sentence writing to students with moderate intellectual disability, Focus on Autism and Other Developmental Disabilities.
Pennington, R. C., & *Rockhold, J. (2018). A brief report: An evaluation of an instructional package for teaching sentence writing to students with autism spectrum disorder. <i>Journal of Autism and Developmental</i> <i>Disorders</i> , 48, 301-306.









## PENNINGTON, FLICK, SMITH-WEHR (IN PRESS, 2018)

- Participant 1
- I want the chip, see fish, fish is hungry
- Participant 2
- I want the tickle, penguin, The shark is blue
- Participant 3
  - ▶ I want the candy, I the shark, the shark black

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## PENNINGTON, FOREMAN, & GURNEY (2018)

- Intervention Sessions
- Present the rule "A sentence names a character and tells more (Kameenui & Simmons, 1990"
- Constant time Delay
- > 2 sessions of 0-s
- 15 s delay trials

Generalization probes in free writing journal activity



















## PENNINGTON & ROCKHOLD (2018)

- Participant 1- 1 sentence format
- Participant 2: 3 different sentence formats
- Participant 3: 2 different sentence formats
- Participant 4: 1 sentence format
- Presentation bias during prompting



STORY WRITING



### A SERIES OF STORY WRITING STUDIES

- Students wrote a combined 53 stories
- All students acquired story writing responses
- > All students acquired new sight words
- > All student increases from 0 to 5 story elements
- Students demonstrated 100% comprehension
- All students demonstrated some generalization across response topographies

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### UNPUBLISHED PLANNING STUDY

- Let's work on writing a story today.
- First, we need a character
- What do you want to write about?
- Now we need a locale,
- Now we need an action
- What did he do?
- Now, we need an emotion
- How did your character feel?







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STORY WRITING STUDY
Pennington & Koehler (2017)
Three middle schoolers with MSD
Focus on story grammar
<ul> <li>Inclusion of Character, Settings, Event 1, Event 2, Character emotion</li> </ul>

# STORY WRITING STUDY

Present a videoPixar clips

Once there was a

lived to the \_\_\_\_\_\_ Then \_\_\_\_\_\_ The end.

- Introduce 5 story elements
- Complete template together

Alt ...

Die day\_\_\_\_\_











## PENNINGTON, MOHAMMAD, & MIMS (UNDER REVIEW)

- Choice of text
- > Directive to read and write an opinion about what you read
- Constant time delay
- Controlling prompt (gesture to word)
- > 2 days of 0s-delay trials
- 5 s-Constant delay trials
- Predictable writing routines across varied stories (multiple exemplars)

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DEPENDENT VARIABLES
Percent of correct words correct
Taught as a chained task
▶ I read about I like/disliked the story.
Read - about - the +
(noun) - <u>1</u> + dis/liked -
the + story _











# **RESUME COVER LETTERS**

- Daily probes
- During instruction
- Student used a checklist to evaluate whether each component was included during probe
- If components were missing, the teacher initiated prompt sequence
- Student graphed independent correct responses





## TEACHING TO TEXT

- Daily probe
- > Teacher prompted student to text R.P.
- Each day, robot instructed students write each step in chain of responses.
- Robot played reinforcing song
- Two of the students required addition of self evaluation component



THANK YOU!	
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