Supplemental Instruction in Decoding Skills for Hispanic and Non-Hispanic Students in Early Elementary School:

Barhara Gunn. Keith Smolkowski. Anthony Riolan. and Carol Rlack Oregon Research Institute This article describes a follow-up study that experimentally evaluated the effects of supplemental reading instruction for children in kindergarten through Grade 3. Students from 10 elementary schools in three school districts were screened using the Dynamic Indicators of Basic Early Literacy Skills. Two hundred fifty-six K-2 students were identified for participation, then randomly assigned to receive or

not receive. I vears of sunnlemental reading instruction that taught hasic decoding and comprehension

	70_THE JOURNAL OF SPECIAL EDUCATION VOL. 36/NO	2/2002 .
	No.	
		7
-		
	. 1 d 1 6 7 t 1 1 1 At	. into a company of skilding a consend for a compa
<u> </u>		
1.30		
<u>'—</u>		
W i—		
<u> </u>		
-		
. <i>E</i> 27		•
÷		
	1995), and their task is complicated by non–English-speaking children, families' high mobility rates, and the lack of literacy	sive social behavior received reading instruction.
	preparation among many early elementary school children. It is therefore appropriate to explore methods for ensur-	Procedure
	it is therefore appropriate to explore methods for ensur-	

TABLE 2. Characteristics of Participants by Condition participation. Marston (1989) reported reliability and validity data for the reading fluency assessment. Hintze, Owen, Shapiro, and Daly (2000) reported that the dependability of three Ethnicity curriculum-based measurement reading passages for identi-All Nonfying reading problems and estimating performance discrep-

	V (1 − 1 − 1 − 1 − 1 − 1 − 1 − 1 − 1 − 1	
	MARY MANAGEMENT OF THE PROPERTY OF THE PROPERT	
	that are missing. The Letter-Word Identification and Word At-	aced in Panding Mastawy if
	trade subtouts were administered at a latitude of the control of t	aced in Reading Wastery if
	tack subtests were administered at each time point; the com-	st or second grade. Reading
	prehension and vocabulary subtests were administered at the Mastery provides explicit instruct	ion in phonemic awareness
	prehension and vocabulary subtests were administered at the Mastery provides explicit instruct	
y		

	NE con	
m ² - 10-33-	16%	
ı '	F=	
	 ',	
i T		
		•
	·	
	#	
7.5		
1)		
1		
•		
<u>.</u>		
,		
-		
	Con-	
(
	the state of the s	
<u> </u>		
<u> </u>		
4 79 98		
, -		

	74 THE JOURNAL OF SPECIAL EDUCATION VOL. 30/NO.	<u> </u>
	X	
		And the second of the second o
	no Time 4 data. Of the 52 with no reading data at Time 4, 36	gressive vs. low reading score) interacted with condition in
	had decreed out of the out de because there was a contract	41-1
		4*
	į.	
_		
_		
	-	
	ticipating school districts. The remaining 16 cases were not	
	mary many control districts. The following to cases were not	
	assessed either because the children frequently missed school	The Effect of Instruction
2	assessed either because the children frequently missed school	The Effect of Instruction
	assessed either because the children frequently missed school	The Effect of Instruction
	assessed either because the children frequently missed school	The Effect of Instruction

.

Comprehension Scores Ethnicity

Dependent variable		Non-Hispanic	Hispanic	All participants
Woodcock-Johnson Letter-Word				
Identification gain score (T1–T	Γ4)			
Control	M	14.86	21.15	18.85
	SD	18.51	18.78	18.83
	n	35	61	96
Intervention	M	20.54	25.05	23.26
	SD	21.87	26.03	24.44
	n	39	59	. 98
Woodcock-Johnson Word Attack gain score (T1-T4)				

F (p values) Effect Size, d

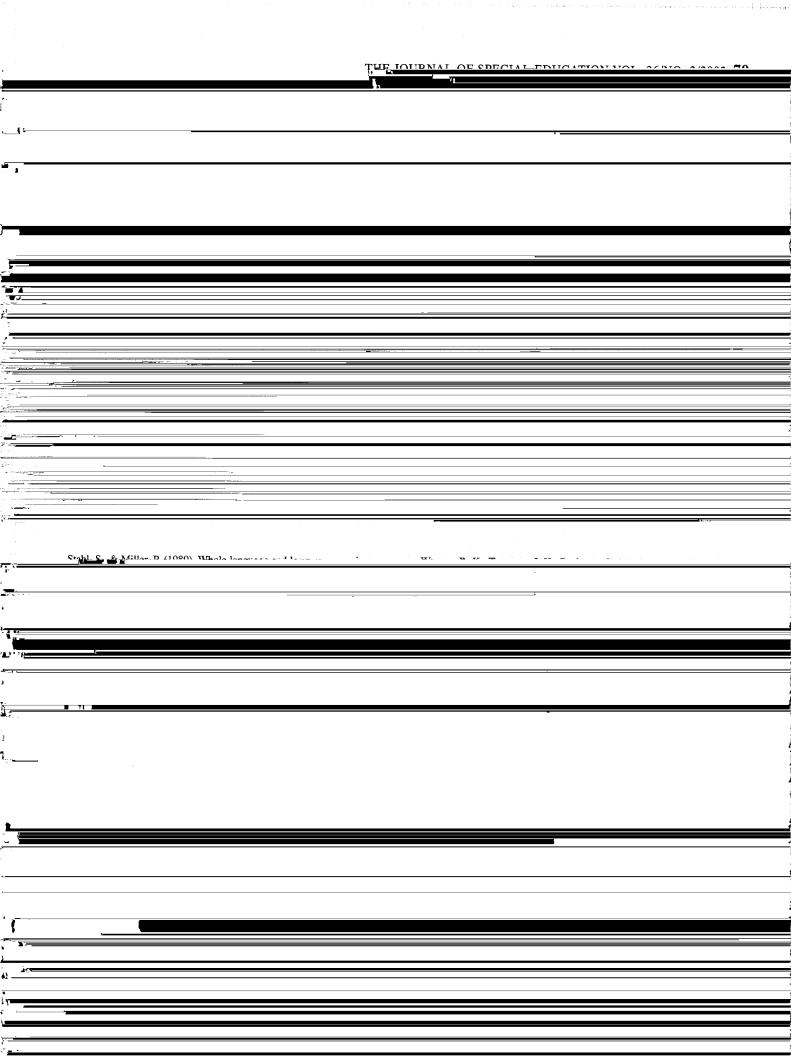
Residual

TABLE 4. Analyses of Variance for Reading Scores by Condition and Ethnicity

		, , , , , , , , , , , , , , , , , , , ,				
Dependent variable	Condition (C)	Ethnicity (E)	$\mathbf{C} \times \mathbf{E}$	df	MS	
YME: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	• 150		2-2			
						_
						_
						_
						_
						_
						_
						_
	(.145)	(.097)	(.783)			
	.22	.24	.04			
Woodcock-Johnson Word Attack	10.301	1.189	4.808	188	478.120	
	(.002) .46	(.277) .16	(.030) .32			
Woodcock-Johnson Vocabulary	2.813 (.095)	12.717 (.000)	.230 (.632)	190	392.141	
	.24	.52	.06			
Woodcock-Johnson Comprehension	3.191	6.599	.297	188	423.520	
Woodcock-Johnson Comprehension	(.076)	(.011)	(.586)	100	423.320	
	.26	.38	.08			
Oral reading fluency	7.462	.052	.164	189	982.065	
,	(.007)	(.820)	(.686)			
	.40	.04	.06			

Note. ANCOVAs were conducted on vocabulary and comprehension, using oral reading fluency at Time 1 as the covariate. All scores are reported as normal curve equivalent

	they spoke English at the outset of instruction. This finding should be viewed with caution, however, due to the small number of children who initially spoke only Spanish. This study provided only minimal power to detect interactions between language spoken and treatment condition among Hispanic	 Cunningham, A. E., & Stanovich, K. E. (1998). The impact of print exposure on word recognition. In J. L. Metsala & L. C. Ehri (Eds.), Word recognition in beginning literacy (pp. 235–262). Mahwah, NJ: Erlbaum. Deno, S. L. (1985). Curriculum-based measurement: The emerging alternative. Exceptional Children, 52, 219–232. Ehri. I. C. (1998). Granheme-phoneme knowledge is essential for learning
` <u>z</u>		
-		
-	students. In sum 11. * possible nnear that cumlemental instru	c- to read words in English. In J. L. Metsala & L. C. Ehri (Eds.). Word
·		
.		· · · · · · · · · · · · · · · · · · ·
-		
	tion using a direct instruction program is a viable, effective	recognition in beginning reading (pp. 3-40). Hillsdale, NJ: Erlbaum. Engalmann S. & Bruner F. C. (1998). Raading mastery Chicago, Saignee
		Engelmann S. R. Bruner F. C. (1998) Pagdina wastern Chianga Saiana



Copyright © 2002 EBSCO Publishing