

The Impact of Project GLAD® on Literacy and Science

Year 1 Results From a Cluster Randomized Trial

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Project GLAD is one of a number of approaches that combines instruction in grade-level content with the development of academic English and is often used in classrooms that teach English learners (ELs) side-by-side with their English-proficient peers. Project GLAD provides teachers with specific instructional strategies of four types:

Strategy type	Purpose	
Readiness and motivation	Establish behavior norms for collaborative work	
	Build student interest	
Input	Teach content using oral and visual strategies	
	Provide multiple representations of content	
Guided oral language	Repeated exposure to vocabulary	
	Practice complex sentences	
Reading and writing	Support reading of grade-level text	
-	Scaffold writing	

To date there has been little evidence that such approaches can help close the achievement gap between ELs and non-ELs (Goldenberg, 2013). Our study was a **cluster-randomized trial** conducted in **30 Idaho schools** with fifth-grade teachers.

Analytic sample n = 2,250 students		
Ethnicity	33% Latino	
	62% White	
FRL eligibility	65% eligible	
EL status	13% current LEP or exited LEP within 2 years	
	(combined because of pretest similarity)	

Analytic model

Models were run separately for ELs and non-ELs. Level 1 [Student] Postij = β 0j + β 1j PREij + eij Level 2 [School] β 0j = γ 00 + γ 01 TRTj + u0j β 1j = γ 10

Results

Measure	Effect sizes (Hedges' g)		
	ELs	Non-ELs	
GM vocabulary	.21~	.04	
GM comprehension	.24~	.04	
Writing (science prompt)			
Ideas	.32*	.21~	
Organization	.27~	.13	
Voice	.05	.08	
Word choice	.22	.14	
Sentence fluency	.05	.12	
Conventions	.02	.07	
Rocks and minerals	.19	.23	
State science	.12	.13	

^{*} p<=0.05

Limitations

We were underpowered for analysis of ELs' outcomes.

Take away: ELs whose teachers had received Project GLAD® professional development scored higher in vocabulary, comprehension, and two aspects of their writing, compared to ELs in control classrooms.

Reference

Goldenberg, C. (2013). Unlocking the research on English learners: What we know—and don't yet know—about effective instruction. *American Educator*, 37(2), 4–11, 38. Retrieved from http://www.aft.org/pdfs/americaneducator/summer2013/Goldenberg.pdf

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[~] p<=0.10