

Relations between English Language Proficiency, Self-regulation, and Achievement:

A Focus on English Language Learners

Guadalupe Díaz, MS Human Development & Family Sciences Oregon State University

Megan McClelland, PhD Human Development & Family Sciences Oregon State University

> Karen Thompson, PhD Education Oregon State University

Child Care and Education Researchers Roundtable
October 21, 2015

English Language Learners (ELLs)

- English Language Learners (ELLs) make up about 10% of the K-12 student population in Oregon (Migration Policy Institute, 2015)
- ELLs make up about 19% of kindergarten students in Oregon
- ELLs lag behind on achievement measures in English when compared to non-ELLs and have additional challenges when transitioning to school (Espinosa, 2007; Fitzgerald, 1993)
- ELLs are more likely to experience risk factors for lower achievement such as living in poverty and lower parent education (Gandara & Contreras, 2009; Pew Hispanic Center 2011)



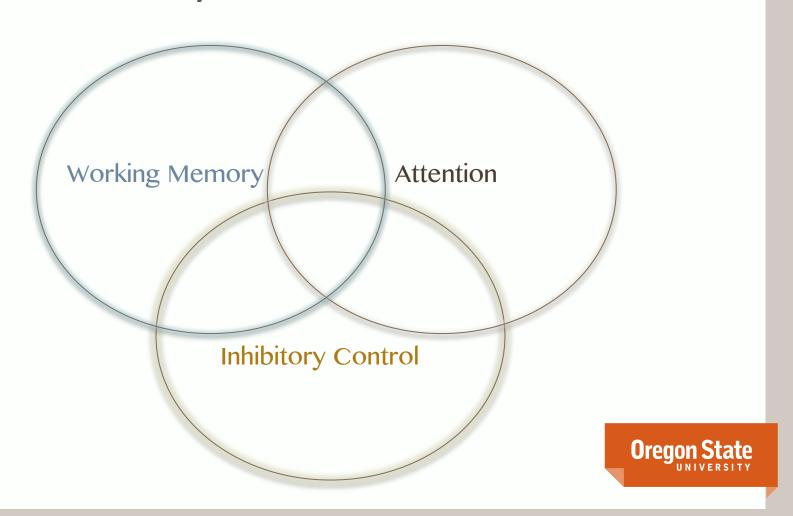
Self-regulation, English Language Proficiency & Achievement

- English language proficiency and self-regulation have separately shown to predict achievement (Espinosa, 2013; Lengua, 2002; McClelland, Acock, & Morrison, 2006)
- Self-regulation is an important component for bilingualism (Bialystok, 2011; Poarch & va Hell, 2012)
- We know very little about the relations between English Language Proficiency, self-regulation and achievement in kindergarten



Definition of: Self-Regulation

Self-regulation is defined as the integration of working memory, attention and inhibitory control.



English Language Proficiency

- Having the English language skills needed to:
 - Access instruction in the classroom
 - Meet the language demands of the academic context
- Children's English language proficiency can range from beginning to advanced
- No uniform definition of English language proficiency



Research Questions

- 1. How are ELLs performing on Kindergarten Assessments when compared to with Oregon Kindergarten who are not identified as ELLs?
- 2. What is the relationship between the English language proficiency Assessment and the Kindergarten Assessments for ELLs?
- 3. What is the relation between self-regulation skills, English language proficiency and achievement for ELLs?



Sample: 2013-2014

N=43, 072	ELLs	Non-ELLs
Students	8,077 (19%)	34,995
Gender	50% male	52% male
Economically Disadvantaged	83%	47%
Ethnicity	78% Latino 9% white 9% Asian/Pacific Islander 2% African American 2% Native American Less than 1% Multi-ethnic	75% White 12% Latino 7% Multi-ethnic 3% African American 3% Asian/Pacific Islander 1% Native American
Language	74% Spanish 4% Russian 2% Vietnamese 20% other languages	93% English 2% Spanish 5% other languages
Special Education	10.35%	9.86%

Measures

Academic Achievement: Emergent Literacy and Math:

- easyCBM letter names & letter sounds (0-100)
- easyCBM mathematics (0-16)

Self-Regulation

• Child Behavior Rating Scale (CBRS) (1-5)

English Language Proficiency

English Language Proficiency Assessment (ELPA)



Procedure

2013-2014 Kindergarten Assessments

- Kindergarten assessments were administered during the first three weeks of kindergarten
 - Math-administered in either Spanish or English (Bilingual version)
 - English Literacy-administered in English
 - Spanish Literacy-administered in Spanish, but voluntary
 - Self-regulation-Teachers rate children's self-regulation in the classroom

English Language Proficiency

- Home language survey
- English language assessment to determine EL status
- ELPA administered mid school year



1. How are ELLs performing on Kindergarten Assessments when compared to with Oregon Kindergarten who are not identified as ELLs?

Economically disadvantaged ELLs and non-ELLs

KA Measures	Economically disadvantaged ELLs (n=6,278) Mean (SD)	Economically disadvantaged non-ELLs (n=16,398) Mean (SD)
Math (Bilingual Version)	6.16 (2.88)	7.52(3.05)***
Letter Sounds (English)	1.52 (4.04)	4.87(7.89)***
Letter Names (English)	6.36 (10.54)	16.08 (15.18)***
Self-regulation (Teacher rated)	3.35 (.93)*	3.32 (.96)

^{*}*p* < .05. ****p* < 001



Question 1 continued

Non low-income ELLs and non-ELLs

KA Measures	ELLs (n=1,349) Mean (SD)	Non-ELLs (n=18,597) Mean (SD)
Math (Bilingual version)	6.68 (3.13)	8.94(3.24)***
Letter Sounds (English)	2.87 (6.39)	10.25(11.20)***
Letter Names (English)	11.63 (14.30)	25.03 (16.81)***
Self-regulation (Teacher rated)	3.34 (.99)	3.64 (.94)*

^{*}p <.05. ***p <001



2. What is the relationship between the ELPA and the Kindergarten Assessments for ELLs in Oregon?

	ELPA	Self- regulation	Math	Letter sounds
ELPA				
Self-regulation	.26***			
Math	.38***	.24***		
Letter Sounds	.35***	.15***	.31***	
Letter Names	.44***	.20***	.35***	.62***

^{***}p <001



3. What is the relation between self-regulation skills, English language proficiency and achievement for ELLs?

	Math	Letter Sounds	Letter Names	English Language Proficiency
Self-Regulation	.30***	.24***	.29***	.25***

^{***}p <001



Conclusion

- ELLs in the state of Oregon still lag behind their non ELL peers in achievement after accounting for income
- Self-regulation and English language proficiency are both related to academics
- Supporting self-regulation may serve as additional strategy to support achievement and English Language proficiency
- Continue to improve measurement for ELLs
 - Language of assessment
 - Procedures for assessment administration
 - Procedures for data collection



Acknowledgements

Steve Slater-Oregon Department of Education Michelle McCoy-Oregon Department of Education Holly Peterson-Oregon Department of Education Oregon School Readiness Research Consortium



