Centre for Literacy & Multilingualism ******* University of Reading Language and word-level reading development in Greek-English bilingual children at primary school: a cross-sequential study Universität

Younger

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Background

Two topics relating to language development of children growing up speaking two languages have long been investigated. The first relates to how children develop and maintain their heritage language and the second to how they develop their majority language (Tsai, Park, Liu & Lau, 2012). Several previous studies have investigated how children **develop** their majority language (Chondorgianni & Marinis, 2011, 2012; Gutierrez-Clellen, Simon-Dereijido, & Wagner, 2008). In contrast, a smaller number of studies have carried out in depth examinations of how children develop and maintain their heritage language and reading skills using a longitudinal design (Gathercole & Thomas, 2009; Hoff, 2013).

Research Questions

- Does children's performance on objective measures of language and word-level reading skills differ on the basis of time (Time 1 vs. 2), language (English vs. Greek), and age (Younger vs. Older children)?
- What is the relationship between the heritage (Greek) and majority (English) language at Time 1 and decoding at Time 2 both within and across languages?

Method

Participants

- 20 from Year 1 (Mean age = 76.6 months, SD = 3.6, 14 boys and 6 girls)
- 20 from Year 3 (Mean age = 100.4 months, SD = 3.4, 9 boys and 11 girls)
- Children were assessed again one school year later (Time 2)

Material

Language history questionnaire

LITMUS-PABIQ questionnaire (Tuller, 2015)

Language and Literacy Tasks

	Vocabulary	Phonological Awareness		Reading Decoding				
	Expressive Vocabulary	Blending	Elision	Real-word reading	Pseudo-word reading			
English	The Renfrew Word Finding Vocabulary Test (Renfrew, 1997)	CTOPP-2 (Wagner, Torgesen, Rashotte & Pearson, 2013) Experimental tasks adapted in Greek based on CTOPP-2		TOWRE-2 (Wagner, Torgesen & Rashotte, 2011)				
Greek	Greek adaptation by Vogindroukas et.al (2009)			Greek adaptation of TOWRE-2 by Georgiou, Parrila & Papadopoulos (2008)				

Results



100

100



Main effect of Time

Main effect of Language

Language*Age sig Time * Language sig Time *Language* Age sig

Phonologcal Awareness



Main effect of Time

Main effect of Age

Non-significant effect of Language Time*Age ns Language * Age sig Time * Language sig Time * Language * Age sig

Decoding



Main effect of Time

Main effect of Language

Main effect of Age

Time* Age ns Language * Age ns Time* Language ns Time * Language * Age ns age.

		1.	2.	3.	4.	5.	6.	7.	8.	9.
Age	1.Expressive Vocabulary.Gr.1									
	2.Expressive Vocabulary.Eng1	.43***								
	3.Phonological Awareness.Gr.1	.07	.07							
	4.Phonological Awareness.Eng.1	.03	.06	.37*						
	5.Expressive Vocabulary.Gr.2	.66***	.24	.18	.02					
	6.Expressive Vocabulary.Eng.2	.37*	.73***	.13	.13	.10				
	7.Phonological Awareness. Gr.2	.06	.07	.85***	.25***	.03	.15			
	8.Phonological Awareness.Eng.2	.05*	.19	.30	.75***	.06	.14	.24		
	9.Decoding.Gr.2	.11	.15	.44**	.41*	.11	.04	.46	.26	
	10.Decoding.Eng.2	.16	.24	.48*	.43**	.14	.27	.34*	.30	.46**

Conclusion

- English.
- versa

References

morphology and morpho-syntax in successive bilingual children. *Linguistic Approaches to Bilingualism*, 1(3), 318-345. Chondrogianni, V., & Marinis, T. (2012). Production and processing asymmetries in the acquisition of tense morphology by sequential bilingual children. *Bilingualism: Language and Cognition, 15*(1), 5-21. *Bilingualism: language and cognition, 12*(2), 213-237. consistency. Journal of Educational Psychology, 100(3), 566. second language learners. *Applied Psycholinguistics*, 29(1), 3-19. doi:10.1017/s0142716408080016 gaps. Developmental psychology, 49(1), 4. Renfrew, C. E. (1995). Word finding vocabulary test: Speechmark Publishing. of Applied Developmental Psychology, 33(5), 219-226. Vogindroukas, I., Protopapas, A., & Sideridis, G. (2009). Test of expressive vocabulary. Chania: Glafki.

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2. Partial-correlation matrix for children's performance on expressive vocabulary, phonological awareness, morphological awareness at Time 1 and decoding at Time 2 in Greek and English, controlling for

1. Our study shows that overall scores were higher in the majority (English) than the heritage language (Greek), demonstrating that the children were dominant in

2. There was linear development in vocabulary and reading decoding with older children showing higher scores than younger children and higher scores in the second compared to the first testing time. In phonological awareness the difference between the majority and heritage language closed at the second testing time

3. The results showed both a concurrent and longitudinal relationship between phonological awareness and word reading skills, both within and between languages, supporting the view that learning a first language with more transparent orthography could enhance skills in the second language with more opaque orthography and vice

Chondrogianni, V., & Marinis, T. (2011). Differential effects of internal and external factors on the development of vocabulary, tense

Gathercole, V. C. M., & Thomas, E. M. (2009). Bilingual first-language development: Dominant language takeover, threatened minority language take-up.

Georgiou, G., Parrila, R., & Papadopoulos, T. (2008). Predictors of word decoding and reading fluency across languages varying in orthographic

Gutierrez-Clellen, V. F., Simon-Cereijido, G., & Wagner, C. (2008). Bilingual children with language impairment: A comparison with monolinguals and

Hoff, E. (2013). Interpreting the early language trajectories of children from low-SES and language minority homes: implications for closing achievement

Tuller L. (2015). Clinical use of parental questionnaires in multilingual contexts. In: Armon-Lotem S., De Jong J., Meir N., (Eds.). Methods for Assessing Multilingual Children: Disentangling Bilingualism from Language Impairment. Bristol: Multilingual Matters, 301–330. Tsai, K. M., Park, H., Liu, L. L., & Lau, A. S. (2012). Distinct pathways from parental cultural orientation to young children's bilingual development. *Journal*

Wagner, R., Torgesen, J., Rashotte, C., & Pearson, N. (2013). Comprehensive test of phonological processing–2nd ed (CTOPP-2). *Austin: Pro-Ed.*