Online Resource: Vocabulary Limitations Undermine Bilingual Children's Reading Comprehension despite Bilingual Cognitive Strengths

Novel-word learning task





SilbatoOruga



MapacheFlauta





Escoba.....Cincel





Cangreho.....Alicates

ANCOVA with Age and Expressive Vocabulary as Covariates:

Measure	F	η_p^2
Reading comprehension	16.285 (15.054)	.075 (.069)**
Text reading accuracy	0.081 (.168)	.000 (.001)
Single word reading	0.128 (.047)	.001 (.000)
accuracy		
Receptive vocabulary	26.414 (24.171)	.116 (.107)**
Novel-word learning	23.110 (24.279)	.103 (.107)**
Working memory	31.875 (31.142)	.137 (.134)**
N-Back	.972 (.923)	.005 (.005)
Letter fluency	8.959 (9.114)	.042 (.043)*
Simon Task	2.044 (2.005)	.010 (010)
Nonverbal IQ ^b	2.499(2.834)	.012 (.014)

Mean Group Differences Between Monolingual and Bilingual Groups

Note. The results are based on raw expressive vocabulary scores and those in parentheses are based on T- scores. The η_p^2 values of .01, .09 and .25 are defined as small, medium and large effect size, respectively (Cohen, 1988).

* *p* < .01. ** *p*< .001.

Simple reaction time task

Children were administered a simple reaction time task in which they responded as quickly as possible with a button press in response to a stimulus indicated by a picture. On each trial participants saw the word "Ready" followed by the presentation of the response stimulus after a delay of either 1000, 3000 or 5000ms and consisted of 45 trials (15 trials per delay). The order of trial presentation was randomised for each participant and the test trial was preceded by practice trials. Prior to analysis erroneous responses and response latencies outside the range of 200-2000ms were excluded. The task was run using the DMDX software (Forster & Forster, 2003).