

Supplemental Material S2. Multiple imputation mixed-effects model results.

Condition	Predictor	<i>b</i> estimate	test-statistic	<i>p</i>
Verbal-within vs Nonverbal-within				
Accuracy				
	Condition	-0.39	-0.99	<i>p</i> = .32
	Group	-1.87	-3.51	<i>p</i> < .001***
	SES	0.01	0.12	<i>p</i> = .91
	Verbal-within interference accuracy	0.57	0.99	<i>p</i> = .33
	Group × Condition	0.64	1.07	<i>p</i> = .29
Reaction Time				
	Condition	-28.90	0.30	<i>p</i> = .76
	Group	208.06	1.54	<i>p</i> = .12
	SES	-10.70	-0.43	<i>p</i> = .67
	Group × Condition	7.61	0.05	<i>p</i> = .96
Verbal-within vs. Verbal-divided				
Accuracy				
	Condition	0.24	0.80	<i>p</i> = .42
	Group	-2.03	-3.77	<i>p</i> < .001***
	SES	-0.10	-1.02	<i>p</i> = .31
	Verbal-within interference accuracy	0.37	0.65	<i>p</i> = .52
	Group × Condition	0.42	0.97	<i>p</i> = .33
Reaction Time				
	Condition	-180.54	-2.38	<i>p</i> < .05*
	Group	224.96	1.66	<i>p</i> = .10
	SES	-1.01	-0.04	<i>p</i> = .97
	Group × Condition	-26.94	-0.21	<i>p</i> = .83
Nonverbal-within vs. Nonverbal-divided				
Accuracy				
	Condition	0.68	2.02	<i>p</i> < .05*
	Group	-1.19	-2.48	<i>p</i> < .05*
	SES	0.05	0.49	<i>p</i> = .62

	Group × Condition	-0.74	-1.52	<i>p</i> = .13
Reaction Time				
	Condition	442.57	4.51	<i>p</i> < .001***
	Group	355.45	2.27	<i>p</i> < .05*
	SES	24.46	0.77	<i>p</i> = .44
	Nonverbal-divided interference RT	0.47	2.27	<i>p</i> < .05*
	Group × Condition	5.86	0.04	<i>p</i> = .97
Verbal-divided vs. Distributed				
Accuracy				
	Condition	-0.53	-1.50	<i>p</i> = .13
	Group	-1.44	-3.05	<i>p</i> < .01**
	SES	-0.01	-0.09	<i>p</i> = .93
	Distributed interference accuracy	1.39	1.94	<i>p</i> = .06
	Group × Condition	0.46	0.86	<i>p</i> = .39
Reaction Time				
	Condition	314.81	3.36	<i>p</i> < .001***
	Group	212.00	1.72	<i>p</i> = .09
	SES	14.29	0.57	<i>p</i> = .57
	Group × Condition	215.09	1.40	<i>p</i> = .16
Nonverbal-divided vs. Distributed				
Accuracy				
	Condition	-0.54	-1.89	<i>p</i> = .06
	Group	-1.81	-3.23	<i>p</i> < .01**
	SES	0.03	0.27	<i>p</i> = .79
	Distributed interference accuracy	2.26	3.18	<i>p</i> < .01**
	Group × Condition	0.94	2.33	<i>p</i> < .05*
DLD Group	Condition	0.57	6.22	<i>p</i> < .001***
TD Group	Condition			<i>p</i> = .10
Reaction Time				
	Condition	-247.34	-2.27	<i>p</i> < .05*
	Group	414.25	1.88	<i>p</i> = .06
	SES	22.48	0.60	<i>p</i> = .55

Nonverbal-divided interference RT	0.49	2.02	$p < .05^*$
Group \times Condition	87.34	0.51	$p = .61$

Note. Test-statistic = chi-sq for accuracy and t-value for reaction time; Group = Typically Developing vs. Developmental Language Disorder group comparison; Sentence Comprehension = Accuracy on the sentence comprehension task; SES = socioeconomic status; NS = not significant; Matrix Reasoning = *t*-score on the Matrix Reasoning subscale from the Wechsler Abbreviated Intelligence Scale, Second Edition (WASI-II); *significant difference at $p < .05$; **significant difference at $p < .01$; *** significant difference at $p < .001$.