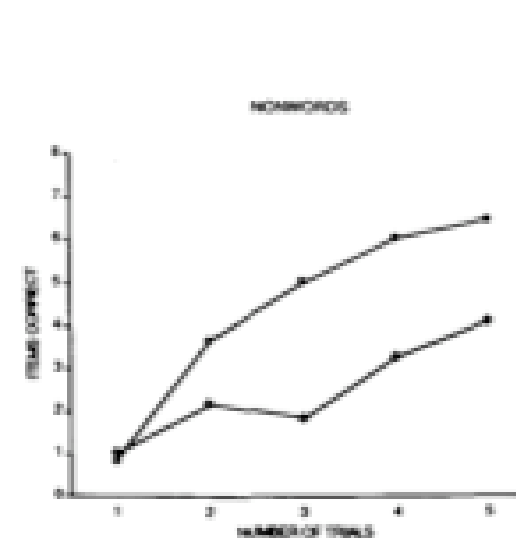
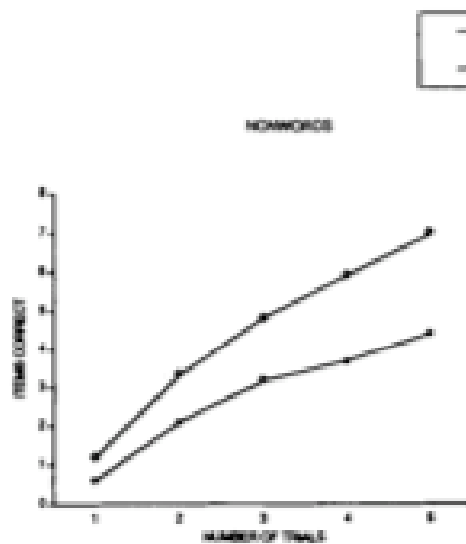
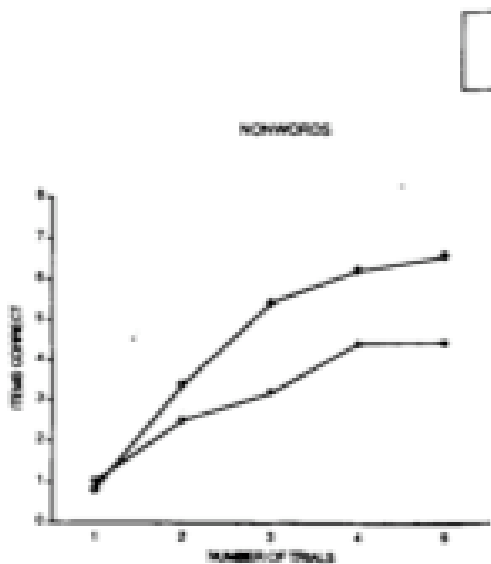
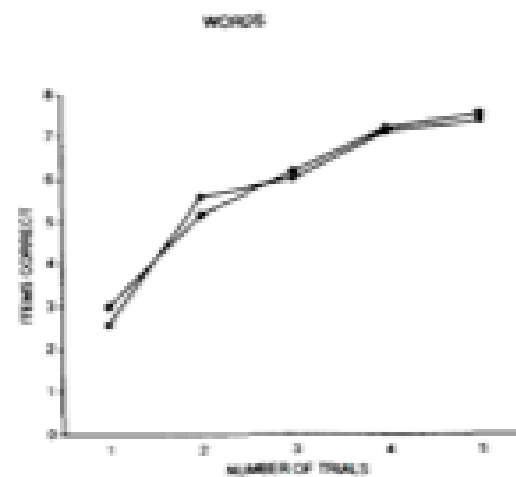
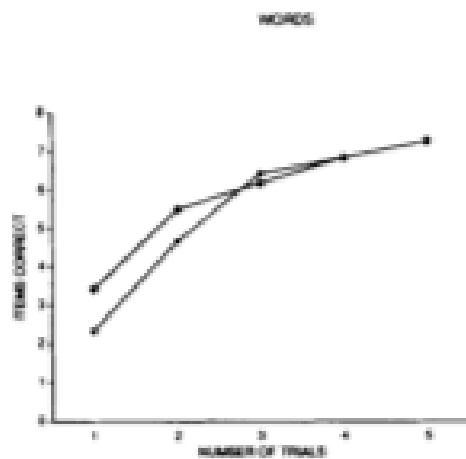
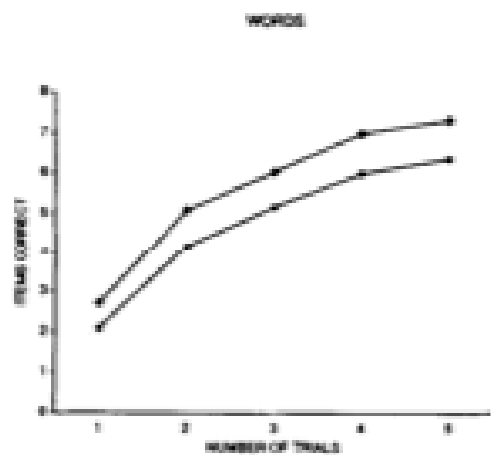


# Wordform learning: Day 1

The link between wordform learning  
and phonological short-term memory

# Data from Papagno & Vallar (1992)



Expt 1

Expt 2

Expt 3

Data from Thorn & Gathercole (2001)

**Table 1**  
**Mean Scores on the Vocabulary, Recall, and Articulation Rate Measures**  
**as a Function of Language Group in Experiment 1**

Measure	Language Group							
	Bilingual				Monolingual			
	First Language		Second Language		First Language (Native)		Second Language (Foreign)	
	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>
Vocabulary	75.47	8.05	58.34	10.21	66.75	6.92	—	—
Recall								
Words	9.58	1.70	7.45	1.52	8.52	1.70	3.71	1.94
Nonwords	4.96	1.36	3.72	1.18	3.90	1.55	1.71	1.15
Articulation rate								
Words	1.92	0.32	1.56	0.26	1.88	0.29	1.48	0.24
Nonwords	1.65	0.30	1.41	0.21	1.68	0.29	1.25	0.22

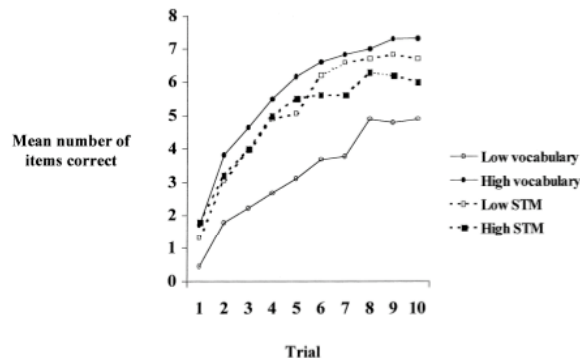
Note—The French vocabulary task was not completed by participants in the monolingual group. Articulation rates are given in items/second.

**Table 2**  
**Mean Scores on the Vocabulary and Recall Measures**  
**as a Function of Language in Experiment 2**

Measure	Language			
	First Language		Second Language	
	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>
Vocabulary	78.83	4.51	60.08	6.87
List recall				
Without suppression	11.83	2.48	10.33	2.90
With suppression	9.58	2.50	7.33	1.44

The persistence of first-language superiority in recall accuracy when subvocal rehearsal was disrupted by concurrent irrelevant articulation provides strong evidence that the language effect does not exclusively arise in the subvocal rehearsal process.

From Massoura & Gathercole (2005)



**TABLE 1**  
Matrix of correlations between all principal measures in screening phase

Measure	1	2	3	4	5	6	7
1 English nonword repetition	–						
2 Greek nonword repetition	.63**	–					
3 Foreign to native translation	.48**	.39**	–				
4 Native to foreign translation	.48**	.41**	.94**	–			
5 Vocabulary translation total	.49**	.40**	.98**	.98**	–		
6 English tuition period	.29**	.14	.72**	.64**	.69**	–	
7 Nonverbal ability	.11	.19	.25*	.25*	.26*	.22	–
8 Age	.01	–.01	.45**	.41**	.43**	.58**	.42**

**TABLE 2**

Mean scores with standard deviations on principal measures during the screening phase for the vocabulary and the nonword repetition groups

Measure	<i>Vocabulary group</i>				<i>Nonword repetition group</i>			
	<i>High</i>		<i>Low</i>		<i>High</i>		<i>Low</i>	
	<i>Mean</i>	<i>SD</i>	<i>Mean</i>	<i>SD</i>	<i>Mean</i>	<i>SD</i>	<i>Mean</i>	<i>SD</i>
<b>Nonword repetition</b>								
Greek	37.63	4.29	34.67	5.83	36.10	4.84	32.06	4.68
English	17.69	3.44	16.22	3.35	21.10	3.21	12.12	3.07
<b>Vocabulary translation</b>								
Native to foreign	48.00	16.74	16.33	9.97	38.00	14.83	29.31	16.34
Foreign to native	48.06	13.76	12.78	5.02	36.20	18.67	29.38	17.65
Total	96.06	29.55	29.11	14.02	74.20	32.81	58.69	13.30
English tuition period	53.81	18.62	25.44	17.34	48.20	24.04	37.69	19.48
Nonverbal ability	27.44	4.50	24.78	4.92	27.50	4.25	26.37	5.30
Age in months	140.81	10.40	131.11	14.11	140.10	12.70	134.60	12.20