APPENDIX 6: The Cognition Hypothesis, Task Design, and Adult Task-Based Language Learning

Table 1: Descriptive Statistics for Speaker Production on Here and Now (Simple) Versus There and Then (Complex) Narratives (Robinson, 1995a) p.70

Narrative production

MPU	SPT	PPU	WPP	%LW	%TLU	
M/SD	M/SD	M/SD	M/SD	M/SD	M/SD	
Here and Now	2.5/1.6	1.5/3.7	15.7/6.1	5.5/2.7	47.7/5.9	62.5/30.3
There and Then	2.2/1.3	1.5/6.1	17.2/10.1	4.2/1.6	52.3/7.4	78.4/24.2
Probability	ns	ns	ns	p =.09	p <.05	p =.06

Key: MPU = Multi-propositional utterances; SPT = S nodes per T-unit; PPU = Pauses per utterance; WPP = Words per pause; %LW = percentage of lexical words per utterance; %TLU = percentage of target-like use of articles

Table 2: Descriptive Statistics for Speaker Production and Hearer Interaction on Simple and Complex Versions of a Map Task (Robinson, 2001b) p.73

Speaker production

		Hearer production					
TTR	%EFC	WPC	CPC	CC	CR		
M/SD	M/SD	M/SD	M/SD	M/SD	M/SD		
Simple	4.3/1.4	58/17	6.6/1.4	1.05/0.8	1.9/2.3	0.8/1.0	
Complex	3.6/1.1	62/13	5.9/1.3	1.05/0.8	4.5/3.5	1.5/1.4	
Probability	p = .01	p = .13	p = .03	ns	p < .01	ns	

Key: TTR = Token type ratio; %EFC = percentage of error free C-units; WPC = Words per C-unit; CPC = Clauses per C-unit; CC = Confirmation checks; CR = Clarification requests.

Table 3: Descriptive Statistics for Responses to the Map Task Difficulty Questionnaire (Robinson, 2001b) p. 73

D	Difficulty	Stress	Ability	Inte	erest	Motivation		
Ν	//SD	M/SD	M/SD	M/S	SD	M/SD		
Simple			3.5/2.1	3.7/2.3	5.0/2.	1 5.0/2	2.1	5.3/2.1
Complex	х	Į	5.4/2.3	4.8/2.4	4.4/2.	0 5.7/2	2.1	5.2/2.3
Probabi	lity	I	o <.01	p <.01	p =.07	7 p = .0	08	ns

Key: TTR = Token type ratio; %EFC = percentage of error-free C-units; WPC = Words per C-unit; CPC = Clauses per C-unit; CC = Confirmation checks; CR = Clarification requests.

Table 4

Descriptive Statistics for Information-Giver, Speaker Turn taking, and Uptake and Incorporation, on Tasks at Different Levels of Reasoning Complexity (Robinson, 2000) p. 78

Reasoning Low M/SD Number of turns	Task Mid M/SD	Complexity High M/SD		
(with aizuchi, T1)	3.85/3.0		4.8/4.0	7.6/5.7
(without aizuchi, T2)	3.2/2.4		2.9/2.1	5.6/4.7
Uptake and incorporation				
Uptake partial	2.2/2.4		3.2/2.2	6.5/3.6
Uptake exact	2.7/1.8		2.2/2.1	2.2/2.2
Uptake partial per turn	0.94/0.81		1.57/1.0	2.7/3.0
Uptake exact per turn	1.6/1.8		157/1.8	1.2/1.6

Table 5: Correlations of aptitude, intelligence and working memory with narrative production at four levels of reasoning complexity (Niwa, 2000 in Robinson, 2000 p.80).

Narrative production	า					
Accuracy	Fluency	Co	omplexity			
EFT TIME	WPS SBP	WPP	WPT	SPT TTR		
Reasoning complexity						
Narrative 1 (simple)	ns	Apt*	ns	ns	ns	ns
ns ns						
48						
Narrative 2	ns	Apt*	ns	ns	ns	Apt**
ns Apt**						
5		59	.61			
Narrative 3	ns	Apt*	ns	ns	ns	ns
ns ns						
42						
Narrative 4 (complex)	Int*	Apt*	ns	Apt/*	WM*	ns
ns ns						
WM**						
4544	45/	47				
55						

Key: * = p < .05; ** = p < .01; ns = p > .05; EFT = percentage of error free T-units;

TIME = time on narrative; WPS = words per second ; SBP = seconds between pauses; WPP = words per pause; WPT = words per T-unit; SPT = S nodes per T-unit; TTR = type token ratio.