

## Supporting Information 2: Object insertion order across trials per individual

(Logan, Jelbert, Breen, Gray, Taylor. 2014. Modifications to the Aesop's Fable paradigm change performances in New Caledonian crows. PLOS ONE)

Q							007							Kitty							Lady							Damien						
Insertion Order							Insertion Order							Insertion Order							Insertion Order							Insertion Order						
Trial	1	2	3	4	5	6	Trial	1	2	3	4	5	6	Trial	1	2	3	4	5	6	Trial	1	2	3	4	5	6	Trial	1	2	3	4	5	6
1	X						1							1			X							1			X							
2							2							2		X								2										
3							3							3	X									3			X							
4				X			4							4	X									4				X						
5	X						5			X				5	X									5			X							
6				X			6			X				6										6		X				X				
7		X					7	X						7										7				X						
8	X						8				X			8										8										
9	X						9							9										9		X								
10							10				X			10										10						X				
11				X			11							11	X									11										
12				X			12							12	X									12										
13			X				13			X				13		X								13										
14			X				14			X				14		X								14	X									
15			X				15							15										15				X						
16			X				16	X						16			X							16	X									
17		X					17			X				17										17	X									
18		X					18			X				18	X									18										
19							19		X					19	X									19			X							
20				X			20			X				20		X								20		X								

Table S2.1. Water vs. Sand: order in which stones were inserted (columns) into water (dark gray) and sand (light gray) tubes and whether the bird successfully obtained the food (marked with an X) for trials 1-20 (rows). Note that occasionally food was obtained from the sand tube because a bird's motivation could change within a trial, therefore changing their reachable distance.

Q									007								Kitty							Lady							Damien				Buster									
Insertion Order									Insertion Order								Insertion Order							Insertion Order							Insertion Order				Insertion Order									
Trial	1	2	3	4	5	6	7	8	Trial	1	2	3	4	5	6	7	8	Trial	1	2	3	4	5	6	7	Trial	1	2	3	4	5	6	7	Trial	1	2	3	4	Trial	1	2	3	4	
1	█	█	█	█	█	█	█	█	1	█	█	X						1	█	█	█	█	█	█	X	1	█	█	X					1	X				1	█	█	X		
2	█	█	█						2	█	█	█	█		X			2	█	X						2	█	█	█	█	X			2	█	X			2	█	█	█		
3	█	█							3	█	█	█	X					3	█	X						3	█	█	█	X				3	█	X			3	█	█	X		
4	█	█	X						4	X								4	█	█	█	█	█		X	4	█	█	█	X				4	█	█	X			4	█	X		
5	█	X							5	█	█	X						5	█	█	█	█	█	X		5	█	█	█	X				5	█	█	X			5	█	█	X	
6	█	█	█	█					6	X	█	█						6	█	█	█	█	X			6	█	█	█	X				6	█	█	X			6	█	█	X	
7	X	█							7	X	█							7	█	█	X					7	X							7	█	█	X			7	█	X		
8	█	█	█	█					8	█	█	█	█	█		X		8	█	X						8	█	█	X					8	█	X			8	█	X			
9	█	█	X						9	█	X	█						9	█	█	X					9	█	█	X					9	█	X			9	█	█	X		
10	█	█	█	█	█				10	█	█	█	█	█	X			10	X							10	X							10	█	X			10	█	X			
11	█	█	█						11	█	█	X						11	X							11	█	█	X					11	█	█	X			11	█	X		
12	█	█	X						12	█	X	█						12	█	█	X					12	█	█	X					12	█	█	█	X		12	█	█	X	
13	█	█	█	█					13	█	█	█	X					13	█	█	X					13	█	X						13	█	█	X			13	█	█	X	
14	X	█							14	█	█	█	X					14	█	█	█	X				14	█	█	█	X				14	X				14	█	█	X		
15	█	X							15	█	█	X						15	X							15	█	█	█	X				15	X				15	█	█	X		
16	X	█							16	█	X							16	█	X						16	█	█	X					16	█	X			16	█	█	X		
17	█	█	X						17	X	█							17	█	X						17	█	█	X					17	█	█	X			17	█	█	X	
18	█	█	█	█					18	█	█	X						18	█	█	X					18	█	X						18	█	█	█	X		18	█	█	█	X
19	█	█	█	█	X	█			19	X	█							19	█	█	X					19	█	X						19	█	█	X			19	█	█	X	
20	X	█							20	█	█	X	█					20	█	█	█					20	█	X						20	█	█	X			20	█	X		

Table S2.2. Sinking vs. Floating: order in which sinking (dark gray) or floating (light gray) objects were inserted (columns) into a water tube and whether the bird successfully obtained the food (marked with an X) for trials 1-20 (rows).

Q					007					Kitty					Lady					Damien					Buster										
Insertion Order					Insertion Order					Insertion Order					Insertion Order					Insertion Order					Insertion Order										
Trial	1	2	3	4	5	Trial	1	2	3	4	5	Trial	1	2	3	4	5	Trial	1	2	3	4	5	Trial	1	2	3	4	5	Trial	1	2	3	4	5
1	█	X				1	█	X				1	█	█	X			1	█	X				1	█	X									
2	█	X				2	█	X				2	█	█	X			2	█	X				2	█	█	X								
3	█	X				3	█	█	X			3	█	X				3	█	X				3	█	X									
4	█	█	X			4	█	X				4	X					4	█	X				4	█	X									
5	█	█	X			5	█	█	X			5	X					5	█	X				5	█	X									
6	█	█	X			6	█	X				6	█	X				6	█	█	X			6	█	█	X								
7	█	█	X			7	█	X				7	█	█	X			7	█	X				7	█	X									
8	█	█	█			8	█	X				8	█	X				8	X					8	█	X									
9	█	X				9	█	X				9	X					9	█	X				9	█	X									
10	█	█	█	█		10	█	X				10	█	X				10	█	█	X			10	█	█	X								
11	█	█	█	█		11	X					11	█	X				11	X					11	█	X									
12	X					12	█	█	X			12	█	█	X			12	X					12	█	X									
13	█					13	█	X				13	X					13	█	X				13	X										
14	X					14	█	X				14	█	█	█	X		14	X					14	█	X									
15	█	█	X			15	█	X				15	█	X				15	X					15	█	█	X								
16	█	X				16	█	█	X			16	█	█	X			16	█	X				16	█	X									
17	█	X				17	█	X				17	█	X				17	█	X				17	X										
18	█	█	█	█		18	█	X				18	█	X				18	█	█	X			18	█	X									
19	█	█				19	X					19	█	X				19	X					19	█	X									
20	█	█				20	█	X				20	█	█	X			20	█	X				20	█	X									

Table S2.3. Solid vs. Hollow: order in which solid (dark gray) or hollow (light gray) objects were inserted (columns) into a water tube and whether the bird successfully obtained the food (marked with an X) for trials 1-20 (rows).

Q				007				Kitty				Lady				Damien				Buster									
Insertion Order				Insertion Order				Insertion Order				Insertion Order				Insertion Order				Insertion Order									
Trial	1	2	3	4	Trial	1	2	3	4	Trial	1	2	3	4	Trial	1	2	3	4	Trial	1	2	3	4	Trial	1	2	3	4
1					1					1		X			1		X			1					1				X
2		X			2	X				2		X			2		X			2	X				2			X	
3				X	3			X		3			X		3		X			3	X				3		X		
4					4			X		4			X		4			X		4			X		4		X		
5				X	5				X	5		X			5			X		5	X				5			X	
6					6			X		6				X	6			X		6	X				6				
7					7					7				X	7				X	7					7		X		
8				X	8					8				X	8	X				8	X				8			X	
9		X			9		X			9		X			9					9				X	9		X		
10			X		10			X		10		X			10				X	10		X			10		X		
11			X		11	X				11		X			11			X		11	X				11		X		
12		X			12	X				12			X		12			X		12					12			X	
13			X		13		X			13		X			13			X		13				X	13		X		
14		X			14				X	14		X			14				X	14		X			14		X		
15				X	15		X			15		X			15		X			15		X			15			X	
16	X				16					16				X	16				X	16			X		16			X	
17			X		17			X		17		X			17		X			17		X			17				X
18		X			18					18		X			18		X			18				X	18			X	
19		X			19			X		19			X		19			X		19		X			19		X		
20			X		20					20				X	20				X	20				X	20			X	

Table S2.4. Narrow vs. Wide Equal Water Levels: order in which objects were inserted (columns) into narrow (dark gray; functional) or wide (light gray; non-functional) water tubes and whether the bird successfully obtained the food (marked with an X) for trials 1-20 (rows). Note that Damien obtained food from the wide tube once because his motivation changed unexpectedly within that trial, therefore changing his reachable distance.

Q					Kitty					Lady					Buster				
Insertion Order					Insertion Order					Insertion Order					Insertion Order				
Trial	1	2	3	4	Trial	1	2	3	4	Trial	1	2	3	4	Trial	1	2	3	4
1					1					1	X				1		X		
2					2					2				X	2			X	
3				X	3					3					3	X			
4					4					4	X				4		X		
5		X			5					5		X			5			X	
6					6				X	6		X			6				X
7					7			X		7			X		7				X
8					8			X		8	X				8				X
9				X	9	X				9		X			9	X			
10					10					10				X	10		X		
11	X				11				X	11	X				11		X		
12				X	12		X			12				X	12			X	
13				X	13		X			13	X				13			X	
14		X			14					14			X		14				X
15		X			15				X	15		X			15			X	
16					16	X				16	X				16				X
17				X	17	X				17	X				17				X
18				X	18				X	18					18		X		
19			X		19			X		19		X			19		X		
20					20				X	20				X	20		X		

Table S2.5. Narrow vs. Wide Unequal Water Levels: order in which objects were inserted (columns) into wide (dark gray; functional) or narrow (light gray; non-functional) water tubes and whether the bird successfully obtained the food (marked with an X) for trials 1-20 (rows).

007				Q				Kitty				Lady				Damien								
Insertion Order				Insertion Order				Insertion Order				Insertion Order				Insertion Order								
Trial	1	2	3	4	Trial	1	2	3	4	Trial	1	2	3	4	Trial	1	2	3	4	Trial	1	2	3	4
1					1				X	1					1		X			1			X	
2		X			2					2			X		2	X				2				
3					3		X			3			X		3					3				
4	X				4		X			4		X			4					4				
5				X	5					5				X	5					5		X		
6	X				6					6	X				6				X	6		X		
7					7					7	X				7			X		7				
8				X	8					8				X	8				X	8	X			
9			X		9		X			9			X		9					9				X
10					10		X			10			X		10			X		10				
11					11					11					11		X			11	X			
12				X	12		X			12				X	12				X	12				
13					13				X	13					13				X	13		X		
14					14	X				14					14		X			14	X			
15			X		15					15	X				15					15				
16					16		X			16		X			16					16	X			
17			X		17				X	17		X			17		X			17				
18					18					18		X			18				X	18				
19					19					19				X	19	X				19				X
20					20					20		X			20					20			X	

Table S2.6. Colored U-tube: order in which stones were inserted (columns) into connected (dark gray; functional) or unconnected (light gray; non-functional) wide water tubes and whether the bird successfully obtained the food (marked with an X) for trials 1-20 (rows). Note that Q obtained food from the unconnected tube once because his motivation changed unexpectedly within that trial, therefore changing his reachable distance.

007				Kitty				Q				Lady				Damien								
Insertion Order				Insertion Order				Insertion Order				Insertion Order				Insertion Order								
Trial	1	2	3	4	Trial	1	2	3	4	Trial	1	2	3	4	Trial	1	2	3	4	Trial	1	2	3	4
1					1				X	1					1	X				1				
2			X		2				X	2					2			X		2			X	
3					3					3					3					3				X
4			X		4				X	4		X			4				X	4		X		
5			X		5		X			5			X		5					5		X		
6				X	6					6					6	X				6				X
7	X				7	X				7				X	7					7	X			
8	X				8					8					8	X				8				X
9			X		9					9				X	9		X			9		X		
10					10		X			10					10	X				10				
11			X		11					11					11	X				11				
12				X	12					12			X		12	X				12				X
13		X			13				X	13		X			13					13	X			
14					14					14					14		X			14				
15					15		X			15			X		15					15				
16	X				16		X			16					16					16				
17					17					17			X		17	X				17	X			
18					18		X			18	X				18			X		18		X		
19		X			19					19					19					19		X		
20					20	!				20					20			X		20				

Table S2.7. Uncovered U-tube: order in which stones were inserted (columns) into connected (dark gray; functional) or unconnected (light gray; non-functional) wide water tubes and whether the bird successfully obtained the food (marked with an X; marked with an ! when obtained from the unconnected tube due to changing motivation levels and thus reachable distance within a trial) for trials 1-20 (rows). Note that 007 obtained food from the connected tube once without dropping objects into the correct wide tube because his motivation changed unexpectedly within that trial, therefore changing his reachable distance.

007						Kitty				Trooper				Lady				Damien								
Insertion Order						Insertion Order				Insertion Order				Insertion Order				Insertion Order								
Trial	1	2	3	4	5	6	Trial	1	2	3	4	Trial	1	2	3	4	Trial	1	2	3	4	Trial	1	2	3	4
1			X				1		X			1	X				1		X			1	X			
2						X	2		X			2		X			2		X			2	X			
3		X					3		X			3			X		3		X			3		X		
4		X					4		X			4		X			4		X			4			X	
5			X				5		X			5	X				5		X			5	X			
6		X					6		X			6	X				6		X			6		X		
7		X					7			X		7		X			7		X			7		X		
8	X						8			X		8		X			8			X		8		X		
9		X					9		X			9		X			9		X			9	X			
10		X					10		X			10		X			10			X		10		X		
11		X					11		X			11	X				11			X		11			X	
12		X					12		X			12		X			12		X			12				X
13		X					13		X			13		X			13			X		13			X	
14		X					14			X		14	X				14		X			14			X	
15		X					15				X	15		X			15		X			15	X			
16		X					16		X			16		X			16			X		16	X			
17		X					17			X		17		X			17		X			17			X	
18			X				18		X			18			X		18		X			18		X		
19		X					19			X		19		X			19		X			19	X			
20		X					20		X			20		X			20		X			20		X		

Table S2.8. Solid vs. Hollow Platform: order in which solid (dark gray) or hollow (light gray) objects were inserted (columns) onto the collapsible platform for trials 1-20 (rows). Note that Damien obtained food by dropping a hollow object into the tube because his motivation changed unexpectedly within that trial, therefore changing his reachable distance.