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Büttner, A C, (2002) *Moses and the Ark* PhD Thesis Oxford Brookes University



Appendices

Appendix 1: Summary table of experimental manipulation and results for semantic illusion research (1981 to 2001) in chronological order

Study	Language		Method of Presentation	Task	Experimental Manipulation	Version	Mean SI rate	Mean Correct rate	Know- ledge check	Notes
Erickson and Mattson, 1981	English		computer, 1 snt at a time, 5s presentation rate	qu	Presented SI questions to document existence of SIs	basic	52.3	??	У	only 4 SI questions
		2	test-booklet, 1 snt per page	stmttbv	turned qus into stmts	basic	26.5	??	У	concluded focus not at root of sis
			test-booklet, 1 snt per	qu	phon. and sem. sim.	basic	35.8	??	у	
			page			sem.	33.2	??	У	Strange choice of sem. sim.
						phon.	13.5	??	У	Strange choice of phon. sim. & rates 0%, 0%, 1% and 53% respectively
Baker and	English	1	aural presentation	stmttbv	embedded snts with false info in either main	main clause	??	88.9	n	Not si task as such: detection of false info
Wagner, 1987					or subordinate clause	subord.clause	??	81.1	n	in snts
			short expository		within pragraphs, complex (embedded) vs	complex (main)	??	80	у	Within complex snts false info in either
			paragraphs containing		compound ("and") snts	complex (subord)	??	69	у	main or subord clause, within compound snts false info in one of two positions
			target snts	info		compound (first)	??	78	у	(closer to beginning or closer to end)
						compound (second)	??	79	У	
Brédart and Modolo, 1988	French		snts presented individually on sheets of	stmttbv	controlled focus by placing substitution/other word in cleft phrase	substitution in "It was"-phrase	9.2	??	У	Research done in French
			paper			other wd in "It was"-phrase	34.1	??	У	_
Brédart and Docquier, 1989	French		snts presented individually on sheets of	stmttbv	target underlined and in upper case	substitution underlined	13.5	??	У	Research done in French; poss problem with response bias see
			paper			other wd underlined	31.7	??	У	also Kamas et al,1996
Reder and	English		Computer, one question	qu	gist vs. literal conditions; few/many terms	gist, few	n/a	66	?	RT advantage for gist vs literal; RT
Cleeremans, 1990			at a time; answers via microphone		associated with queried information	gist , many	n/a	69	?	advantage for fewer related terms; significantly more errors in literal task
			micropriorie			literal, few	??	63	?	mainly due to SIs. Number of related terms
						literal, many	??	34	?	nad no impact on performance excepted in iteral distorted condition.
	2 Computer, one question at a time; answers via	Computer, one question at a time; answers via	qu	Participants memorised relevant facts before SI task (priming)	gist, primed	n/a	93	?	Primed qus are answered much faster; priming did not make it easier to detect	
			microphone		~ ~ ~	gist, not primed	n/a	77	?	substitutions. Different in correct rate
				literal, primed	34	59	?	mainly due to fewer don't know answers in primed literal.		
						literal, not primed	40	36	?	

[Key: snt = sentence ; SI = semantic illusion; stmttbv = statement-to-be-verified; qu = question; stmt = statement.]

Study	Language		Method of Presentation	Task	Experimental Manipulation	Version	Mean SI rate	Mean Correct rate	Know- ledge check	Notes
Van Oostendorp	Dutch			stmttbv	sem. relatedness of substitution was varied	high-related	29	??	У	Also RT data: correct responses ("false")
and de Mul, 1990			screen, press buttons on box for responses			low-related	16	??	у	faster than in correct ("true"); for "false" low-related faster, for "true" high-related and low-related not different.
van Oostendorp and Kok, 1990	Dutch		test-booklet, 1 snt per page	stmttbv	paired associate learning task combined with higher and lower related names	non-paired, low- related	17	??	У	In paired assoc learning task, concepts from context of si snt served as stimuli,
						paired, low-related	32	??	У	and substitutions as responses
						non-paired, high- related	30	??	У	
						paired, high- related	44	??	У	
Reder and Kusbit,	English			qu	instructions: gist vs literal conditions; number	gist, few	n/a	75.6		RT: gist faster than literal; fewer itmes
1991			rate controlled by ss, voice key to measure RT		of items associated with queried info also varied	gist, many	n/a	75.6		faster then more items but accuracy in literal condition much more affected by no.
			voice key to measure it i		Vaneu	literal, few	33	61.7		of items, while accuracy in gist not affected
						literal, many	33	42.1		(SI rate only for part of ss of this study)
				qu	ss studied facts for be answered before si	gist, primed	n/a	96.2		RT: literal slower and less accurate;
			rate controlled by ss,		task (priming)	gist, not primed	n/a	74.7		previously studied stmts are answered much faster and more accurately; did no
			voice key to measure KT	to measure RT gist, not primed 174 74.7 muc	differentially affect SI detection					
						literal, not primed	35	56.2		(SI rates for both expts 2 and 3 combined)
				qu	ss memorized facts for be answered before si	gist, primed	n/a	92.5		RT: literal slower and less accurate;
			rate controlled by ss, voice key to measure RT		task (priming)	gist, not primed	n/a	76.5		priming increases speed and accuracy, but does not interact with task; did not
			voice key to measure RT			literal, primed	31	59.3		differentially affect SI detection
						literal, not primed	35	35.5		(SI rates for both expts 2 and 3 combined)
		4	computer, ss controlled	qu	ss read snt word by word, then gave answer,	gist	n/a	76		Reading times: words read slower when
			onset of each word and only one word appeared on the screen at a time (to record reading times)		reading time of words recorded	literal	32	57		errors made; targets read slower than content words when error is made
		5	computer, ss controlled	qu	reading time of indiv words combined with	gist, primed	n/a	89		Reading times: priming produced much
			onset of each word and		priming procedure as in expt 2	gist, not primed	n/a	75		faster reading times; reading times for
			only one word appeared on the screen at a time			literal, primed	24	74		targets in literal slower when question had been primed, accuracy improved, but not
			(to record reading times)			literal, not primed	29	53		differentially for SIs

Study	Language	Expt	Method of Presentation	Task	Experimental Manipulation		Mean SI rate	Mean Correct rate	Know- ledge check	Notes			
Barton and	English	1	short expository	n/a	Ss were asked where to bury the survivors	survivors	n/a	60	n/a	Detection rates lowest when "is alive" is			
Sanford, 1993			paragraphs followed by target question			injured/wounded/m aimed	n/a	17.5	n/a	only presupposed as in "injured" terms. When "is alive" info not readily accessible, it is less likely to be entered into matching			
						surviving injure/wounded/ma imed	n/a	66	n/a	process.			
			short expository paragraphs followed by target question	n/a	Ss were asked where to bury the surviving dead	surviving dead	n/a	23	n/a	"dead" in the phrase "surviving dead" constitutes a perfect match			
			question embedded in short questionnaire about social issues	n/a	assuming left-right processing:target qu varied passive/active and scenario (bike/plane crash) early/late in snt	early scenario, passive voice, plane crash	n/a	26	n/a				
					early scenario, passive voice, bicycle crash	n/a	80	n/a					
								early scenario, active voice, plane crash	n/a	44	n/a		
						early scenario, active voice, bicycle crash	n/a	73	n/a				
								late scenario, passive voice, plane crash	n/a	31	n/a		
												late scenario, passive voice, bicycle crash	n/a
						late scenario, active voice, plane crash	n/a	46	n/a				
						late scenario, active voice, bicycle crash	n/a	93	n/a				
			question embedded in short questionnaire	n/a	short scenario followed by question "Suppose there was an aircrash with many survivors.	basic task/ irrelevant info	n/a	76	n/a				
			about social issues, with		Where should they be buried?" if info relevant	relevant info	n/a	49	n/a				
			all qus in a two snts format	to the questions of place of burial was included in scenario, detection of "survivors" less likely		anomaly focussing ctrl	n/a	100	n/a	-			

Study	Language	Expt	Method of Presentation	Task	Experimental Manipulation	Version	Mean SI rate	Mean Correct rate	Know- ledge check	Notes	
Kamas, Reder and				qu	facts with capitalised wds studied before	target in caps	24	75		performance diffs are likely to reflect a	
Ayers, 1996			one snt at a time		response to qu	answer in caps	33	63		change in bias, not in sensitivity	
						no caps	29	70			
		2	Computer presentation, one snt at a time	qu	single-task (monitor for sis only) vs. dual-task (monitor and respond to gus)	single-task	n/a	62	У	again bias seems to be at work	
						qu-answering	37	40	У		
		3a		qu	target in caps vs. nothing in caps in qu asked,	-	23	62		again bias at least in part	
		one snt at a time		instructions also commented upon caps possibly being helpful in deciding if si	nothing in caps	36	48				
		3b		qu	target in caps vs. nothing in caps in qu asked,	target in caps	27	66	У	sensitivity to si increase if target in caps,	
			one snt at a time		but instructions did not comment upon caps, also knowlch included	nothing in caps	32	53	У	but bias also affected	
		4		qu	features of substitution which differentiate it	distinctive	30	59	У	detection rates improve when pre-qu	
		one snt at a time		from the target were made salient by preceding with a qu that either stressed sims	similar	41	48	У	stresses diffs, detection rates are not impaired by pre-qu stressing sims;		
					or diffs or was irrelevant irrelevant 42 47 y additional relevant to	additional info hurt performance when relevant to answer, but not when irrelevant (cf. Barton and Sanford, 1993)					
van Jaarsveld,	Dutch	1	computer presentation,	, qu ss were required to decide if the qu presented act	accurate	18.3	??	у	ss can control their ability to detect sis, but		
Dijkstra and Hermans, 1997			one snt at a time		was accurately phrased. Instructions varied in stress for need of accuracy/speed	balanced	32.9	??	У	detection is rather difficult even under favourbale circumstances	
,		2	computer presentation, one snt at a time	qu	qu-answering (ignore sis) vs. detection-task	qu-answering, sim	n/a	52.6	у	Diff between qu-answering sim and diss not significant; diff between detection sim and diss is significant. RT data: for qu-	
						qu-answering, diss	n/a	49.1	У		
						detection, sim	n/a	38.8	У	answering, diss slower than sim; for	
						detection, diss	n/a	58.6	У	detection sim slower than diss.	
				qu &	qu vs. stmttbv; front and end positions of	stmttbv, sim, front	25.3	34.4	У	Sim effect is based on disruptive effect on	
			one snt at a time	stmttbv	target, sim and diss substitutions: prediction about in which position and task diss will be	stmttbv, sim, end	24.2	37.8	У	ongoing sem interpretation (smaller sim eff = less disruption by diss terms >> more	
					more disruptive (sim effect)		У	superficial sem procg.			
						stmttbv, diss, end	9.8	53.7	У	For stmttbv, sim effect not significant, and main position effect not sign, but main	
						qu-answ, sim, front	n/a	56.9	У	effect of sim, sign.	
						qu-answ, sim, end	n/a	53.9	У	For qu-answ, sim effect sign at front, but	
						qu-answ, diss, front	n/a	50	У	 not at end (i.e. more disruption at front). Main effect of position not sign. 	
						qu-answ, diss, end	n/a	48.7	У		

Study	Language	Expt	Method of Presentation	Task	Experimental Manipulation	Version	SI rate	Mean Correct rate	Know- ledge check	Notes
Shafto and MacKay, 2000	English	1	Aural presentation over headphones, plus written with blank words to be	qu	Compared sem. related, phonologically related and unrelated substitutions	Sem. Related	??	67	N	Assumption that surname identity=phonological relatedness – but in context surname on its own is a perfect
			shadowed, multi-choice answers			Phon. Related	??	77	N	match! compare with goodness-of-fit (Barton and Sanford, 1993).
						Unrelated	??	91	N	
			Aural presentation over headphones, plus written with blank words to be shadowed, multi-choice	qu	Compared Moses illusion (sem. related), Armstrong illusion (phonologically related) and Mega-Moses illusion (sem. and phonologically related)	Moses	??	70	N	Results not very clearly presented
			answers			Armstrong	??	?	N	
				Armstrong ?? ? N Mega-Moses ?? 51 N	_					
						Unrelated	??	91	n	
Hannon and Daneman, 2001	English		1 snt at a time on computer screen; read	qu	Compared effects of context strength (high/low) and substitution relatedness	Strong subs/high context	??	53	Y	Also took individual differences measures for knowledge access and working
			out loud and respond as quickly as possible		(strong/weak) Weak subs/high context Strong subs/low context	??	64	Y	memory span from participants – knowledge access is better predictor of	
							??	56	Y	detection rate with regard to subs word relatedness; working memory span is
						Weak subs/low ctxt	??	68	Y	better predictor of detection rate when context is strong

Appendix 2: Sentences and primes used in the pilot study

Key: For each sentence the following typographical cues are used to denote each role filler: [Correct term / potential SI substitution / *obvious substitution*].

A: Names

- A1: Vulnerability to kryptonite is [Superman's / **Batman's** / *Thatcher's*] only weakness. Primes: Superman: Lois Lane, Daily Planet, x-ray vision Batman: Robin, Catwoman, Gotham City
- A2: Sophisticated gadgets were supplied to [James Bond / James Kirk / James Galway] by Q. Primes: James Bond: secret agent, Moneypenny, 007 James Kirk: starship captain, Spock, Enterprise

A3: The animal into which [Dracula / **Frankenstein** / *Washington*] can transform is a bat. Primes: Dracula: vampire, Transsylvania, sucks blood Frankenstein: scientist, monster, Mary Shelley

A4: [Robin Hood / King Arthur / *Ian Botham*] took from the rich to give to the poor. Primes: Robin Hood: Sherwood, longbow, Merry Men King Arthur: Guinevere, Excalibur, Round Table

A5: Hercule Poirot is one of [Agatha Christie's / **Jane Marple's** / *Judy Dench's*] most famous characters. Primes: Agatha Christie: Dame, whodunnit, Mousetrap Jane Marple: Spinster, detective, eccentric

A6: The star of Disney's first cartoon with sound was [Mickey Mouse / **Bugs Bunny** / *Sid James*]. Primes: Mickey Mouse: Pluto, Donald Duck, Goofy. Bugs Bunny: 'Whatsup Doc?', carrot, rabbit

A7: Sex scandals have put [Bill Clinton / **Tony Blair** / *Winston Churchill*] in the news recently. Primes: Bill Clinton: Whitewater, USA, Hillary Tony Blair: New Labour, Prime Minister, Cheri

A8: Dr Watson recorded the cases his friend [Sherlock Holmes / Inspector Morse / Inspector Clouseau] solved.

Primes: Sherlock Holmes: Deerstalker, Baker St., Conan Doyle Inspector Morse: Sgt. Lewis, Oxford, Colin Dexter

A9: After [Sleeping Beauty / **Snow White** / *Cilla Black*] pricked her finger, she slept for a hundred years Primes: Sleeping Beauty: wicked witch, uninvited guest, spinning wheel Snow White: seven dwarves, glass coffin, poisoned apple

A10: The Hollywood suicide of [Marilyn Monroe / Elizabeth Taylor / Anthea Turner] occurred in the 1960s

Primes: Marilyn Monroe: Arthur Miller, billowing skirt, pop-art Elizabeth Taylor: Cleopatra, Richard Burton, National Velvet

B: Nouns

B1: Guacamole is a Mexican dip made with mashed-up avocados / **artichokes** / *strawberries*. Primes: avocado: pear, dip, prawns artichoke: starter, heart, dressing,

B2: There are twenty-six letters / **numbers** / *words* in the English alphabet. Primes: letters: vowels, consonants, language numbers: odd, even, counting

B3: Neil Armstrong was the first man to walk on the moon / **sun** / *carpet*. Primes: moon: night, craters, space . sun: Summer, daylight, bright.

- B4: The young of dogs / **cats** / *fish* are called puppies. Primes: dogs: barks, tail, kennel cats: purrs, mice, whiskers
- B5: Whales / elephants / *camels* are the largest aquatic mammals on Earth. Primes: whales: ocean, blubber, harpoon elephants: Zoo, trunk, tusks

B6: Traditionally, housekeeping is the woman's / **man's** / *gardener's* job. Primes: woman: female, mother, wife man: male, father, husband

- B7: Sunglasses provide protection for the eyes / ears / feet. Primes: eyes: sight, lashes, pupil ears: hearing, lobes, pierced
- B8: International phone calls are cheaper during the night / day / autumn . Primes: night: late, sleep, dark day: early, light, work
- B9: Fermented apple / **pear** / *carrot* juice is called cider. Primes: apple: pips, sour, Cox's pear: bell-shaped, soft, Conference

B10: The Germans with their sausage are like the British with their tea / **coffee** / *tequila*. Primes: tea: leaves, bags, spoon coffee: beans, instant, roasted

C: Verbs

- C1: Too much salt increases / **decreases** / *follows* the risk of heart-disease. Primes: increases: grow, multiply, enlarge decreases: reduce, lessen, shrink
- C2: Grocery shops are where people go to buy / sell / eat sugar Primes: buy: pay, money, purchase sell: deal, offer, profit
- C3: Getting dust up the nose usually makes people sneeze / **cough** / *laugh*. Primes: sneeze: itch, nose, hayfever cough: chest, throat, phlegm
- C4: An apocryphal news item reports that: "Man bites / kicks / strokes dog." Primes: bites: mouth, teeth, savage kicks: strike, foot, boot
- C5: In Victorian times, horses were commonly used to pull / **push** / *paint* carts Primes: pull: tug, draw, haul push: thrust, shove, press
- C6: Many small birds sing / **swarm** / *dance* at daybreak. Primes: sing: music, choir, voice swarm: bees, group, milling
- C7: Washing / wearing / *knitting* two pairs of socks can help to avoid blisters. Primes: washing: water, clean, scrub wearing: appearance, dress, garb
- C8: It is easy to smudge the ink when you write / **read** / *wave* with a quill. Primes: write: pen, paper, script read: books, text, meaning
- C9: The eruption of the Vesuvius caused Pompeii to be destroyed / **evacuated** / *conquered*. Primes: destroyed: damaged, ruined, demolished evacuated: people, move, safety, leave
- C10: Grapefruit are large citrus fruit that taste / **smell** / *look* bitter. Primes: taste: food, flavour, mouth smell: nose, odour, aroma

D: Adjectives

D1: People predominantly wear black / **white** / *stylish* garments to funerals. Primes: black: dark, pitch, coal white: snow, milk, light

D2: After a rain storm everything around is wet / **blue** / *dead*. Primes: wet: water, soaked, dripping blue: sky, azure, indigo

D3: Gas central heating helps to keep the house warm / **rosy** / *dark*. Primes: warm: cosy, comfortable, blanket rosy: pink, soft, cheeks

D4: Church mice are usually said to be poor / **cold** / *small*. Primes: poor: scanty, penurious, hungry cold: ice, frozen, winter

D5: Free / **light** / *strong* as a bird is an expression and also a song-title. Primes: free: liberty, unfettered, release light: cloud, feather, bubble

D6: The phone directory is usually bound in a soft / **yellow** / *blank* cover. Primes: soft: thistledown, pillow, fluffy yellow: lemon, sunflower, custard

D7: Chip-pans can easily cause burnt / **scalded** / *clean* hands Primes: burnt: charred, blackened, ashes scalded: steam, kettle, blister

D8: Living under a flight path does not make for a quiet / **careful** / *full* life. Primes: quiet: silent, calm, still careful: cautious, thorough, considered

D9: Motorways have a much higher / **stricter** / *safer* speed limit than other roads. Primes: higher: tower, above, upper stricter: precise, firm, rigid

D10: Snakes are smooth / **slimy** / *sharp* to the touch. Primes: smooth: sleek, even, gentle slimy: oozy, gooey, gelatinous

Appendix 3: Examples of questionnaires used in Experiment 1

(Presentation order, questions first or statements first was counterbalanced.)

Questionaire 1. (Statements first; Hollywood)

Statements:

Г

Please read these through as fast as you can and circle for each statement whether you think it is true or false.

Please do not turn the page until you have completed it.

1. Hollywood is the centre of the American Film industry.	t	f
2. Tony Blair is the Prime Minister of Great Britain.	t	f
3. Cinderella went to the ball in a pumpkin turned carriage by the Fairy Godmother.	t	f
4. Wellington's victory is commemorated by his column in Trafalgar Square.	t	f
5. Sean Connery, the famous actor, is a Welshman.	t	f
6. Nelson Mandela is the first black president of South Africa.	t	f
7. The only man-made structure that can easily be seen from the moon is the Great Wall of China.	t	f
8. Neil Armstrong was the first man to walk on the moon.	t	f
9. In "Arabian Nights", the genie was released from the lamp by Ali Baba.	t	f
10. Columbus discovered Australia at the end of the 15th century.	t	f
11. Marilyn Monroe died in 1962 from an overdose of barbiturates.	t	f
12. The Eiffel Tower stands in Berlin.	t	f
13. J.R.R. Tolkien's "The Lord of the Rings" was recently voted to be the book of the century.	t	f
14. Snow White slept for a hundred years after she pricked her finger.	t	f
15. Inspector Morse does his policing in Oxford.	t	f
16. The person behind Microsoft, Windows and so on is Bill Gates.	t	f
17. Ronald Reagan was an actor before he became the President of the United States.	t	f
18. Hong Kong went back to the People's Republic of China in July 1997.	t	f
19. Michelangelo's portrait of the enigmatically smiling Mona Lisa is in the Louvre.	t	f
20. King Arthur took from the rich and gave to the poor.	t	f

<u>Questions:</u> Please read each questions and write down the answer to it as fast as you can. Some questions don't actually make sense, answer those with "can't say".

Please do not turn the page until you have completed it.

1. Who found the disguised wolf in her grandmother's bed?	
2. Which composer wrote the Magic Flute and is sometimes described as a musical genius?	
3. What many-coloured garment was Jacob given by his father?	
4. Which boxer bit off a chunk of his opponent's ear?	
5. How did Richard Branson, the Virgin Man, try to fly around the world?	
6. How many times did King Henry VIII marry?	
7. Where was William Shakespeare born?	
8. Who wrote "The Origin of Species" which caused much controversy when first published?	
9.Which Roman city was destroyed by the eruption of Mount Etna?	
10. In the biblical story, who was swallowed by a whale?	
11. Who is currently Queen of Great Britain?	
12. Why has Bill Clinton recently been in the news?	
13. What was the nationality of Hercule Poirot, the famous detective created by Jane Marple?	
14. Who discovered gravity by having an apple fall on his head?	
15. What is Superman's only weakness?	
16. Which the Spice Girl left?	
17. With what weapon did the Bethlehem shepherd David kill the giant Samson?	
18.When did Mother Theresa of Calcutta die?	
19. What everyday item was invented by Thomas Edison?	
20. Where did the Beatles come from?	

Multichoice	a	uestions:	

Take as much time over these as you like, and answer them as accurately as possible, please.

1 Whose victor	is commomorated	by the column i	n Trafalgar Square?
1. WHOSE VICTOR	y is commentorated	by the column r	II ITalaigal Squale:

	a) Napoleon	b) Wellington	c) Churchill	d) Nelson
2. Who	slept for a hundred years a	after she pricked her finger	r?	
	a)Cinderella	b) Sleeping Beauty	c) Snow White	d) Rapunzel
3. The e	ruption of which volcano	destroyed the Roman city	of Pompeii?	
	a) Mount St Helens	b) Mount Etna	c) Popocatepetl	d) Vesuvius
4. Who	created Hercule Poirot, the	e famous Belgian detectiv	e?	
	a) Agatha Christie	b) Ruth Rendell	c) Jane Marple	d) Dorothy Sayers
5. Who	painted the portrait of the	enigmatically smiling Mo	na Lisa?	
	a) Raffael	b) Michelangelo	c) Leonardo	d) Caravaggio
6. What	was the name of the giant	killed by the Bethlehem	shepherd David's slingsho	ot?
	a) Goliath	b) Samson	c) Magog	d) Ezekiel
7. In the	"Arabian Nights", who re	eleased the genie from the	lamp?	
	a) Sinbad The Sailor	b) Bluebeard	c) Aladdin	d) Ali Baba
8. Who	was given a coat of many	colours by his father?		
	a) Jacob	b) Joseph	c) Benjamin	d) Isaac

That's it! Thank you very much for taking part in this study.

<u>Questions:</u> Please read each questions and write down the answer to it as fast as you can. Some questions don't actually make sense, answer those with "can't say".

Please do not turn the page until you have completed it.

1. Where is the centre of the American Film industry?	
2. Who is currently the Prime Minister of Great Britain?	
3. Who turned a pumpkin into a carriage so that Cinderella could go to the ball?	
4. What is the monument in Trafalgar Square that commemorates Wellington's victory?	
5. What is the nationality of Sean Connery, the famous actor?	
6. Who became the first black president of South Africa?	
7. Which is often referred to as the only man-made structure that can easily be seen from the moon?	
8. Who was the first man to walk on the moon?	
9. In the "Arabian Nights", from what vessel did Ali Baba release the genie?	
10. In what century did Columbus discover Australia?	
11. Which Hollywood star died in 1962 from an overdose of barbiturates?	
12. Where does the Eiffel Tower stand?	
13. Who wrote "The Lord of the Rings", which was recently voted to be the book of the century?	
14. For how many years did Snow White sleep after she pricked her finger?	
15. In which town does Inspector Morse do his policing?	
16. Who is the person behind Microsoft, Windows and so on?	
17. What profession did Ronald Reagan have before he became the President of the United States?	
18. When was Hong Kong returned to the People's Republic of China?	
19. In which museum is Michelangelo's portrait of the enigmatically smiling Mona Lisa?	
20. Which legendary hero took from the rich and gave to the poor?	

<u>Statements:</u> Please read these through as fast as you can and circle for each statement whether you think it is true or false.

Please do not turn the page until you have completed it.

1. Little Red Riding Hood found the disguised grandmother in her wolf's bed.	t	f
2. Wolfgang Amadeus Mozart, composer of the Magic Flute, is sometimes described as a musical genius.	t	f
3. Jacob was given a coat of many colours by his father.	t	f
4. Mike Tyson bit off a chunk of his opponent's ear.	t	f
5. Richard Branson, the Virgin Man, tried to fly around the world in a balloon.	t	f
6. King Henry VIII married six times.	t	f
7. William Shakespeare was born in Stratford-upon-Avon.	t	f
8. Charles Darwin wrote "The Origin of Species" which caused much controversy when first published.	t	f
9. The eruption of Mount Etna destroyed the Roman city of Pompeii.	t	f
10. In the biblical story Jonah was swallowed by a whale.	t	f
11. Elizabeth II is currently Queen of Great Britain.	t	f
12. Bill Clinton has recently been in the news for improprieties in his sex life.	t	f
13. Hercule Poirot, the famous Belgian detective was created by Jane Marple.	t	f
14. Newton discovered gravity by having an apple fall on his head.	t	f
15. Batman has only one weakness: vulnerability to kryptonite.	t	f
16. Ginger Spice has left the Spice Girls.	t	f
17. The Bethlehem shepherd David killed the giant Samson with his slingshot.	t	f
18. Mother Theresa of Calcutta died in September 1997 at an advanced age.	t	f
19. Thomas Edison invented the lightbulb.	t	f
20. The Beatles came from Manchester.	t	f

[The knowledge check used was identical to that used for Questionnaire 1.]

Appendix 4: Example of a questionnaire used in Experiment 2

1 Hallowers die the contra of the American Film in heatmy	1	e
1. Hollywood is the centre of the American Film industry.	t	f
2. Tony Blair is the Prime Minister of Britain.	t	f f
3. Cinderella went to the ball in a pumpkin turned carriage by the Fairy Godmother.	t	
4. Ali Baba released the genie from the lamp in "Arabian Nights".	t	f
5. Sean Connery, the famous actor, is a Welshman.	t	f
6. Nelson Mandela is the first black president of South Africa.	t	f
7. The only man-made structure that can easily be seen from the moon is the Great Wall of China.	t	f
8. Sigmund Freud pioneered work in psychoanalysis at the turn of the century.	t	f
9. Neil Armstrong was the first man to walk on the moon.	t	f
10. Jane Marple created Hercule Poirot, the famous moustachioed detective from Belgium.	t	f
11. Marilyn Monroe died from an overdose of barbiturates.	t	f
12. Michelangelo painted the portrait of Mona Lisa.	t	f
13. The Eiffel Tower stands in Berlin.	t	f
14. Michael Schuhmacher is a Formula 1 driver for Ferrari.	t	f
15. J.R.R. Tolkien's "The Lord of the Rings" was recently voted to be the book of the century.	t	f
16. His father gave Jacob, one of twelve brothers, a coat of many colours.	t	f
17. Inspector Morse does his policing in Oxford.	t	f
18. The person behind Microsoft, Windows and so on is Bill Gates.	t	f
19. Ronald Reagan was an actor before he became the President of the United States.	t	f
20. Hong Kong went back to the Republic of China in July 1997.	t	f
21. Robin Hood was killed in battle.	t	f
22. In Trafalgar Square, Wellington's victory over the Franco-Spanish navy is commemorated by	t	f
his column.	-	
23. The Eurostar is the train that goes through the Channel Tunnel.	t	f
24. Richard Branson, the Virgin Man, tried to fly around the world in a balloon.	t	f
25. William Shakespeare was born in Stratford-upon-Avon.	t	f
26. Little Red Riding Hood found the disguised grandmother in her wolf's bed.	t	f
27. Wolfgang Amadeus Mozart is sometimes described as a musical genius.	t	f
28. The fairytale princess Snow White slept for a hundred years.	t	f
29. Mike Tyson bit off his opponents ear.	t	f
30. Albert Einstein, the Jewish physicist and author of the theory of relativity, emigrated to	t	f
America.	-	-
31. King Henry VIII married six times.	t	f
32. "Titanic" was director James Cameron's latest success.	t	f
33. Charles Darwin is the author of "The Origin of Species" which caused much controversy when	t	f
first published.	-	-
34. Macbeth was responsible for the killing of Duncan.	t	f
35. The Bethlehem shepherd David used his slingshot to kill the giant Samson.	t	f
36. In the biblical story Jonah was swallowed by a whale.	t	f
37. Elizabeth II is currently Queen of England.	t	f
38. Bill Clinton has recently been in the news for improprieties in his sex life.	t	f
39. During the 15th century, the Spanish-Italian navigator Columbus discovered islands off the	t	f
coast of Australia.	ľ	1
40. Helmut Kohl is the German Chancellor.	t	f
41. Pompeii was destroyed by the eruption of Mount Etna.	t	f
42. Newton discovered gravity by having an apple fall on his head.	t	f
43. Batman has only one weakness: vulnerability to kryptonite.	t	f
	ι t	f
44. Ginger Spice has left the Spice Girls.45. Mother Theresa of Calcutta died in September 1997 at an advanced age.	t t	f
+3. Mouler Theresa of Calculta uleu in September 1997 at an advanced age.	ι	1

1. Whose victory over the france spanish havy is commentated by the column in francing square.								
	a) Napoleon	b) Wellington	c) Churchill	d) Nelson				
2. Which	h fairytale princess slept f	or a hundred years?						
	a)Cinderella	b) Sleeping Beauty	c) Snow White	d) Rapunzel				
	3. Islands off the coast of which continent were discovered by the Spanish-Italian navigator Columbus during the 15th century?							
	a) America	b) Asia	c) Australia	d) Africa				
4. The e	ruption of which volcano	destroyed Pompeii?						
	a) Mount St Helens	b) Mount Etna	c) Popocatepetl	d) Vesuvius				
5. Who	5. Who created Hercule Poirot, the famous moustachioed detective from Belgium?							
	a) Agatha Christie	b) Ruth Rendell	c) Jane Marple	d) Dorothy Sayers				
6. Who	painted the portrait Mona	Lisa?						
	a) Raphael	b) Michelangelo	c) Leonardo	d) Caravaggio				
7. What	was the name of the giant	killed by the Bethlehem	shepherd David's slingsho	ot?				
	a) Goliath	b) Samson	c) Magog	d) Ezekiel				
8. In "A	8. In "Arabian Nights" who released the genie from the lamp?							
	a) Sinbad The Sailor	b) Bluebeard	c) Aladdin	d) Ali Baba				
9. Who	9. Who of twelve brothers was given a coat of many colours by his father?							
	a) Jacob	b) Joseph	c) Benjamin	d) Isaac				

1. Whose victory over the Franco-Spanish navy is commemorated by the column in Trafalgar Square?

Key: FS=front short, FM=front medium, FL=front long, MS=middle short, MM=middle medium, ML=middle long, ES=end short, EM=end medium, EL=end long

FS	Wellington's victory is commemorated in Trafalgar Square.
FM	Wellington's victory is commemorated by his column in Trafalgar Square.
FL	Wellington's victory over the Franco-Spanish navy is commemorated by his column in
	Trafalgar Square.
MS	In Trafalgar Square, Wellington's victory is commemorated.
MM	In Trafalgar Square, Wellington's victory is commemorated by his column.
ML	In Trafalgar Square, Wellington's victory over the Franco-Spanish navy is commemorated by
	his column.
ES	Trafalgar Square commemorates the victory won by Wellington.
EM	The column in Trafalgar Square commemorates the victory won by Wellington.
EL	The column in Trafalgar Square commemorates the victory over the Franco-Spanish navy won
	by Wellington.
	Snow White, the fairytale princess, slept for a hundred years.
	Snow White, the fairytale princess, slept for a hundred years, after she pricked her finger.
FL	Snow White, the fairytale princess, slept for a hundred years, after she pricked her finger on a
210	spindle.
	The fairytale princess Snow White slept for a hundred years.
	After she pricked her finger, the fairytale princess Snow White slept for a hundred years.
ML	After she pricked her finger on a spindle, the fairytale princess Snow White slept for a hundred
T 2	years.
	The fairytale princess, who slept for a hundred years, is Snow White.
	The fairytale princess, who slept for a hundred years after she pricked her finger, is Snow
EL	White.
	The fairytale princess, who slept for a hundred years after she pricked her finger on a spindle, is
	Snow White.
FS	Jacob was given a coat of many colours by his father.
	Jacob, one of twelve brothers, was given a coat of many colours by his father.
	Jacob, an Israelite and one of twelve brothers, was given a coat of many colours by his father.
	His father gave Jacob a coat of many colours.
	His father gave Jacob, one of twelve brothers, a coat of many colours.
	His father gave Jacob, one of twelve brothers, a coat of many colours.
	His father gave a coat of many colours to Jacob.
	The father of twelve brothers gave a coat of many colours to Jacob.
	The father of twelve Israelite brothers gave a coat of many colours to Jacob.
	The factor of twelve islamic brothers gave a coat of fiding colours to show.
FS	Australia was discovered by Columbus during the 15 th century.
	Australian offshore islands were discovered by Columbus during the 15 th century.
FL	Australian offshore islands were discovered by the Spanish-Italian navigator Columbus during
	the 15 th century.
MS	Columbus discovered Australia during the 15 th century.
	Columbus discovered islands off the coast of Australia during the 15 th century.
ML	The Spanish-Italian navigator Columbus discovered islands off the coast of Australia during the
_	15 th century
ES	During the 15 th century, Columbus discovered Australia.
	,,,
	During the 15 th century, Columbus discovered islands off the coast of Australia.
EM EL	During the 15 th century, Columbus discovered islands off the coast of Australia. During the 15 th century, the Spanish-Italian navigator Columbus discovered islands off the coast
	FM FL MS MM ML ES EM EL FS FM FL MS MM ML ES EM EL FS FM FL MS MM ML ES EM EL FS FM FL MS MM MIL

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Appendix 6: Examples of the German semantic illusion questionnaire

Bitte lesen Sie diese Sätze so schnell Sie können durch und kreuzen für jeden Satz an, ob Sie ihn für whar (w) oder falsch (f) halten.

 Hollywood ist das Zentrum der amerikanischen Filmindustrie. Tony Blair ist zur Zeit der britische Premierminister. Aschenputtel fuhr in einem Kürbis, den die Fee in eine Kutsche verwandelt hatte, zum Ball. Der Ausbruch des Ätna zerstörte die römische Stadt Pompeii. Nelson Madela ist der erste dunkelhäutige Präsident von Südafrika. Das einzige Gebäude, das man vom Mond aus sehen kann, ist die chinesische 	w w	f f
 3. Aschenputtel fuhr in einem Kürbis, den die Fee in eine Kutsche verwandelt hatte, zum Ball. 4. Der Ausbruch des Ätna zerstörte die römische Stadt Pompeii. 5. Nelson Madela ist der erste dunkelhäutige Präsident von Südafrika. 	W	f
zum Ball. 4. Der Ausbruch des Ätna zerstörte die römische Stadt Pompeii. 5. Nelson Madela ist der erste dunkelhäutige Präsident von Südafrika.		1
5. Nelson Madela ist der erste dunkelhäutige Präsident von Südafrika.	W	f
	W	f
6. Das einzige Gebäude, das man vom Mond aus sehen kann, ist die chinesische	W	f
Mauer.	W	f
7. Die Beatles kamen aus Manchester.	W	f
8. Gerhard Schröder ist zur Zeit Bundeskanzler.	W	f
9. Mozart, der Komponist der Zauberflöte, gilt als musikalisches Genie.	W	f
10. Ein bunter Mantel wurde Jakob von seinem Vater geschenkt.	W	f
11. Marilyn Monroe starb 1962 an einer Überdosis von Barbituraten.	W	f
12. Der Eiffelturm steht in London.	W	f
13. Ali Baba befreite im Märchen in "1001 Nacht" den Geist aus der Wunderlampe.	W	f
14. Neil Armstrong war der erste Mann auf dem Mond.	W	f
15. Robin Hood stahl von den Reichen, um den Armen zu geben.	W	f
16. Kolumbus entdeckte Afrika gegen Ende des fünfzehnten Jahrhunderts.	w	f
17. Wolfram von Eschenbach ist der Dichter des Parzival.	W	f
18. Nachdem sie sich in den Finger stach, fiel Schneewittchen in einen hunderjährigen Schlaf.	W	f
19. Ronald Reagan war Schauspieler, bevor er Präsident der Vereinigten Staaten wurde.	W	f
20. Albrecht Dürer wurde in Nürnberg geboren.	w	f
21. Mutter Theresa von Kalkutta verstarb im September 1997 in fortgeschrittenem Alter.	w	f
22. Jane Marple erfand Hercule Poirot, den berühmten belgischen Detektiv.	w	f
23. Der jüdische Physiker und Nobelpreisträger Albert Einstein wanderte in die USA	W	f
aus. 24. Rotkäppchen fand die verkleidete Großmutter im Bett ihres Wolfes.	w	f
25. In der biblischen Geschichte wurde der Prophet Jonah von einem Wal verschluckt.	w	f
26. Sir Isaac Newton entdeckte die Schwerkraft.	w	f
27. Thomas Edison erfand die Glühbirne.	w	f
28. Der Schäfer David aus Bethlehem tötete den Riesen Samson mit Stein und	w	f
Schleuder. 29. Martin Luther nagelte 99 Thesen an die Tür der Kirche in Wittenberg.	w	f
30. Beethoven verlor gegen Ende seines Lebens das Gehör.	w	f

Bitte lesen Sie diese Sätze so schnell Sie können durch und kreuzen für jeden Satz an, ob Sie ihn für whar (w) oder falsch (f) halten.

Satz an, ob Sie ihn für whar (w) oder falsch (f) halten.		
1. Hollywood ist das Zentrum der amerikanischen Filmindustrie.	W	f
2. Tony Blair ist zur Zeit der britische Premierminister.	w	f
3. Aschenputtel fuhr in einem Kürbis, den die Fee in eine Kutsche verwandelt hatte, zum Ball.	w	f
4. Die römische Stadt Pompeii wurde durch den Ausbruch des Ätna zerstört.	w	f
5. Nelson Madela ist der erste dunkelhäutige Präsident von Südafrika.	w	f
6. Das einzige Gebäude, das man vom Mond aus sehen kann, ist die chinesische Mauer.	w	f
7. Die Beatles kamen aus Manchester.	w	f
8. Gerhard Schröder ist zur Zeit Bundeskanzler.	w	f
9. Mozart, der Komponist der Zauberflöte, gilt als musikalisches Genie.	w	f
10. Jakob bekam von seinem Vater einen bunten Mantel geschenkt.	w	f
11. Marilyn Monroe starb 1962 an einer Überdosis von Barbituraten.	w	f
12. Der Eiffelturm steht in London.	w	f
13. Den Geist aus der Wunderlampe im Märchen in "1001 Nacht" wurde von Ali Baba befreit.	w	f
14. Neil Armstrong war der erste Mann auf dem Mond.	w	f
15. Robin Hood stahl von den Reichen, um den Armen zu geben.	w	f
16. Kolumbus entdeckte Afrika gegen Ende des fünfzehnten Jahrhunderts.	w	f
17. Wolfram von Eschenbach ist der Dichter des Parzival.	w	f
18. Schneewittchen fiel in einen hunderjährigen Schlaf, nachdem sie sich in den Finger stach.	w	f
19. Ronald Reagan war Schauspieler, bevor er Präsident der Vereinigten Staaten wurde.	w	f
20. Albrecht Dürer wurde in Nürnberg geboren.	w	f
21. Mutter Theresa von Kalkutta verstarb im September 1997 in fortgeschrittenem Alter.	w	f
22. Hercule Poirot, den berühmten belgischen Detektiv, erfand Jane Marple.	w	f
23. Der jüdische Physiker und Nobelpreisträger Albert Einstein wanderte in die USA	w	f
aus. 24. Rotkäppchen fand die verkleidete Großmutter im Bett ihres Wolfes.	w	f
25. In der biblischen Geschichte wurde der Prophet Jonah von einem Wal verschluckt.	w	f
26. Sir Isaac Newton entdeckte die Schwerkraft.	w	f
27. Thomas Edison erfand die Glühbirne.	w	f
28. Den Riesen Samson tötete der Schäfer David aus Bethlehem mit Stein und Schleuder.	w	f
29. Martin Luther nagelte 99 Thesen an die Tür der Kirche in Wittenberg.	w	f
30. Beethoven verlor gegen Ende seines Lebens das Gehör.	w	f

Bitte beantworten Sie nun diese 6 Fragen, so gut es geht. Lassen Sie sich dafür so viel Zeit, wie Sie wollen, da es hier nicht mehr um Geschwindigkeit, sondern um Genauigkeit geht.

1. Wer fiel in einen hunderjährigen Schlaf?								
a) Aschenputtel	b) Dornröschen	c) Schneewittchen	d)Rapunzel					
2. Der Ausbruch welche	2. Der Ausbruch welchen Vulkanes zerstörte die römische Stadt Pompeii?							
a) Mt. St Helens	b) Ätna	c) Popocatépetl	d) Vesuv					
3. Wer erfand den berül	hmten belgischen D	Detektiv Hercule Po	irot?					
a) Agatha Christie	b) Ruth Rendell	c) Jane Marple	d) Dorothy Sayers					
4. Wie hieß der Riese, o Schleuder tötete?	den der Schäfer Da	vid aus Bethlehem	mit Stein und					
a) Goliath	b) Samson	c) Magog	d) Ezechiel					
5. Wer befreite den Gei	st aus der Wunderl	ampe im Märchen i	n "1001 Nacht"?					
a) Sindbad der Seefahrer	b) Blaubart	c) Aladdin	d) Ali Baba					
6. Wer bekam einen bunten Mantel von seinem Vater geschenkt?								
a) Jakob	b) Josef	c) Benjamin	d) Isaak					

Das war dann alles! Herzlichen Dank für Ihre Teilnahme an dieser Studie.

the reading and cognition research project

Dear participant,

Project Director: R.O.Lindsay Research Coordinator: A.C. Büttner

This programme of sentence property rating scales has been designed as part of a research study about sentence processing¹. Each different scale attempts to tap into an aspect of what makes English sentences comprehensible, readable or even what makes them "comfortable" to process.

Please read the instructions for each of the following scales carefully and rate each sentence according to these instructions on the scale provided.

Please make a response for every sentence on each of the eleven rating scales - it should take about 25 - 30 minutes to complete the programme - and return the booklet using the envelope provided.

All information will of course be handled with complete confidentiality.

Thank you very much for taking part!

Anke Büttner Research Coordinator The Reading and Cognition Research Unit Psychology Department Oxford Brookes University

Your details:

Date of Birth: _____

Gender: _____

¹ If you would like further information about my research, please email: *abuttner@brookes.ac.uk*

1.) What kind of text is it?

Please classify each sentence by indicating the categories you think it fits. You may choose more than one category if you feel that this is appropriate. Also feel free to add other categories if needed: the categories presented are not exhaustive.

1. Noah took two animals of each type on the Ark.

News	Opinion	Fact	Fiction	Description	Speech
Narrative	Textbook	Academic	Response to a question	Magazine	Other:

2. Bloodletting, generally accomplished with the aid of leeches, was thought to remove "poisons" from the blood.

News	Opinion	Fact	Fiction	Description	Speech
Narrative	Textbook	Academic	Response to a question	Magazine	Other:

3. It was President Kennedy, who was killed in Dallas in 1963.

News	Opinion	Fact	Fiction	Description	Speech
Narrative	Textbook	Academic	Response to a question	Magazine	Other:

4. Snow White was sheltered by seven dwarfs before marrying her prince.

News	Opinion	Fact	Fiction	Description	Speech
Narrative	Textbook	Academic	Response to a question	Magazine	Other:

5. Calcium phosphate is a mineral salt and is the principal mineral constituent of bones and teeth.

News	Opinion	Fact	Fiction	Description	Speech
Narrative	Textbook	Academic	Response to a question	Magazine	Other:

6. In the October revolution of 1917 the Bolsheviks took under the leadership of Lenin the power in Russia.

News	Opinion	Fact	Fiction	Description	Speech
Narrative	Textbook	Academic	Response to a question	Magazine	Other:

7. In what mythology was Venus known as the Goddess of Love?

News	Opinion	Fact	Fiction	Description	Speech
Narrative	Textbook	Academic	Response to a question	Magazine	Other:

8. The future of Barclays, one of Britain's biggest banking groups, was thrown into doubt yesterday with the shock resignation of its chief executive, Martin Taylor.

News	Opinion	Fact	Fiction	Description	Speech	
Narrative	Textbook	Academic	Response to a question	Magazine	Other:	

9. Inspector Morse who does his policing in Oxford was invented by Colin Dexter.

News	Opinion	Fact	Fiction	Description	Speech
Narrative	Textbook	Academic	Response to a question	Magazine	Other:

10. This particular pool of light moving in a mesmeric manner backwards and forwards picked out from time to time a long red island of spilt wine.

News	Opinion	Fact	Fiction	Description	Speech
Narrative	Textbook	Academic	Response to a question	Magazine	Other:

11. Subjects averaged 47 seconds longer to name ink colors of incongruent words than solid-color squares.

News	Opinion	Fact	Fiction	Description	Speech
Narrative	Textbook	Academic	Response to a question	Magazine	Other:

12. Of course a certain number of scientists have to go mad, just to keep the tradition alive.

News	Opinion	Fact	Fiction	Description	Speech
Narrative	Textbook	Academic	Response to a question	Magazine	Other:

13. The archaeologist Schliemann discovered the ruins of the ancient city of Troy.

News	Opinion	Fact	Fiction	Description	Speech
Narrative	Textbook	Academic	Response to a question	Magazine	Other:

14. These results are consistent with the current literature on focalizaton and question the Erickson and Mattson (1981) claim that the Moses illusion is not dependent on a misdirection of focus.

News	Opinion	Fact	Fiction	Description	Speech	
Narrative	Textbook	Academic	Response to a question	Magazine	Other:	

15. Away ran the girls, too eager to get in to have time for speech.

News	Opinion	Fact	Fiction	Description	Speech
Narrative	Textbook	Academic	Response to a question	Magazine	Other:

2.) How great is the quantity of background knowledge required to understand the sentence?

"This door opens outwards" doesn't require much background knowledge at all (rating 0: not at all great). "Windows 98 immediately crashed upon first being demonstrated " requires rather more background (rating probably 3: very great), while "Left and right temporal lobectomy patients, patients with frontal lobe lesions and healthy control subjects participated in an eyelid conditioning study based on conditional discrimination learning" needs lots of background knowledge to be made sense of (rating 4: extremely great).

1. Noah to	ook two a	nimals of ea	ch type o	n the Ark.					
not at all	0	slightly	1	moderately	2	very	3	extremely	4
2. Bloodle not at all	etting, ger	nerally accor slightly	nplished	with the aid of moderately	leeches, 2	was thoug very	ght to rem	ove "poisons' extremely	" from the blood.
3. It was P not at all	President	Kennedy, wl slightly	ho was ki	illed in Dallas i moderately	in 1963.	very	3	extremely	4
4. Snow W not at all	White wa	s sheltered b slightly	y seven o	lwarfs before n moderately	marrying	her prince very	2. 3	extremely	4
5. Calciun not at all	n phospha	ate is a mine slightly	ral salt ar	nd is the princip moderately	pal miner	al constitu very	uent of bo	ones and teeth. extremely	4
6. In the C not at all	October re	evolution of slightly	1917 the	Bolsheviks too moderately	ok under t	he leaders very	ship of Le	enin the power extremely	r in Russia.
7. In what not at all	mytholo	gy was Venu slightly	is known	as the Goddes moderately	s of Love	? very	3	extremely	4
		rclays, one o hief executiv slightly			ing group	os, was th very	rown into	doubt yesterc	lay with the shock
9. Inspecto not at all	or Morse	who does hi slightly	s policing	g in Oxford wa moderately	s invente	d by Colin very	n Dexter.	extremely	4
1		pool of light ind of spilt w slightly	0	in a mesmeric moderately	manner b	ackwards very	and forw	ards picked or extremely	ut from time to
11. Subjec not at all	cts averag	ged 47 second slightly	ds longer	to name ink co moderately	plors of in 2	ncongruer very	nt words t	han solid-colc extremely	a
12. Of cou not at all	urse a cer	tain number slightly	of scienti	ists have to go moderately	mad, just	to keep ti very	he traditio	on alive. extremely	4
13. The ar not at all	chaeolog	ist Schliema slightly	nn discov	vered the ruins moderately	of the an 2	cient city very	of Troy.	extremely	4
				current literatu ot dependent o moderately				on the Erickso extremely	on and Mattson
15. Away not at all	ran the g	irls, too eage slightly	er to get i	n to have time moderately	for speec 2	h. very	3	extremely	4

3.) How important is it to know the context of the sentence in order to understand it?

A sentence like "Bread is made from flour and water" is fairly self-contained and it is not important to know the context in which such a sentence appears (rating 0: not at all important). However, "It would take about an hour" could have different meanings depending on the context it is presented in (rating 4: extremely important).

1. Noah to not at all	ok two ai \Box_0	nimals of eac slightly	type of 1	n the Ark. moderately	2	very	3	extremely	4
2. Bloodle not at all	tting, gen	nerally accom slightly	nplished	with the aid of moderately	leeches, 2^2	was thoug very	ght to rem	ove "poisons' extremely	from the blood. 4
3. It was P not at all	resident $\begin{bmatrix} 0 \\ 0 \end{bmatrix}$	Kennedy, wh slightly	o was ki	illed in Dallas i moderately	n 1963.	very	3	extremely	4
4. Snow W not at all	hite was	sheltered by slightly	seven d	warfs before m moderately	arrying h	er prince. very	3	extremely	4
5. Calcium not at all	n phospha	ate is a miner slightly	al salt ar	nd is the princip moderately	pal miner	al constitu very		ones and teeth. extremely	4
6. In the O not at all	ctober re	volution of 1 slightly	917 the	Bolsheviks too moderately	k under t	he leaders very	ship of Le	nin the power extremely	in Russia.
7. In what not at all	mytholog	gy was Venu slightly	s known	as the Goddes: moderately	s of Love	? very	3	extremely	4
		rclays, one of iief executive slightly			ing group	os, was the very	rown into	doubt yesterd extremely	lay with the shock
9. Inspecto not at all	or Morse	who does his slightly	policing	g in Oxford wa moderately	s invente	d by Colin very	n Dexter.	extremely	4
		pool of light : nd of spilt wi slightly	0	in a mesmeric 1 moderately	manner b	ackwards very	and forw	ards picked ou extremely	at from time to
11. Subjec not at all	ts averag	ed 47 second slightly	ls longer	to name ink co moderately	plors of in 2	ncongruer very	nt words th	han solid-colo extremely	r squares.
12. Of cou not at all	rse a cert	ain number o slightly	of scienti	ists have to go a moderately	mad, just	to keep th very	he traditio	on alive. extremely	4
13. The arc not at all	chaeologi	ist Schliemar slightly	nn discov	vered the ruins moderately	of the and 2	cient city very	of Troy.	extremely	4
				current literatu ot dependent or moderately				on the Erickso extremely	n and Mattson
15. Away not at all	ran the gi	irls, too eager slightly	r to get in \Box_1	n to have time moderately	for speec	h. very	3	extremely	4

4.) How specific are the meanings of the individual words used in the sentence?

The sentences: "There is a piece of paper on the floor" and "There is a reference to Thurstone's classic work in this paper" both contain the word "paper". In the first one, it just refers to any piece made of the material "paper": it could be a bit of newspaper, from a magazine, drawing paper, a letter, or torn out of a book (rating 0: not at all specific). In the second sentence "paper" refers to a piece of academic writing , which would still be called a "paper" even if it were presented in electronic format (rating 4: extremely specific).

	ok two a	nimals of eac	ch type o						
not at all	0	slightly	1	moderately	2	very	3	extremely	4
2. Bloodle not at all	tting, ger	nerally accor slightly	nplished	with the aid of moderately	2 leeches,	was thoug very	ght to rem	ove "poisons' extremely	i from the blood. 4
3. It was P not at all	resident	Kennedy, wl slightly	ho was ki	illed in Dallas i moderately	in 1963.	very	3	extremely	4
4. Snow W not at all	/hite was	sheltered by slightly	y seven d	warfs before m moderately	narrying h	ner prince very		extremely	4
5. Calcium not at all	n phospha	ate is a miner slightly	ral salt an	nd is the princip moderately	pal miner	al constitu very	uent of bo	ones and teeth. extremely	4
6. In the O not at all	october re	evolution of a slightly	1917 the	Bolsheviks too moderately	ok under t	he leaders very	ship of Le	enin the power extremely	in Russia.
7. In what not at all	mytholog	gy was Venu slightly	is known	as the Goddes moderately	s of Love	very	3	extremely	4
		rclays, one o nief executiv slightly			ing group	os, was th very	rown into	doubt yesterd	lay with the shock
9. Inspecto not at all	or Morse	who does hi slightly	s policing	g in Oxford wa moderately	s invente	d by Coli very	n Dexter.	extremely	4
		pool of light nd of spilt w slightly		in a mesmeric moderately	manner b	ackwards very	and forw	ards picked of extremely	ut from time to
11. Subjec not at all	ts averag	ged 47 second slightly	ds longer	to name ink co moderately	plors of in 2	ncongruer very	nt words t	han solid-colo extremely	
12. Of cou not at all	orse a cert	tain number slightly	of scient	ists have to go moderately	mad, just	to keep t very	he traditio	on alive. extremely	4
13. The ar not at all	chaeolog	ist Schliema slightly	nn discov	vered the ruins moderately	of the an 2	cient city very	of Troy.	extremely	4
				current literatu ot dependent o moderately				on the Erickso extremely	on and Mattson
15. Away not at all	ran the g	irls, too eage slightly	er to get i	n to have time moderately	for speec 2	h. very		extremely	4

5.) How familiar is the proposition stated in the sentence?

A sentence like "Bill Clinton is a philanderer" expresses an idea that - given recent news about Clinton - is extremely familiar (rating 4: extremely familiar), even if you have not come across that precise sentence before now. In contrast something like "Howard Street is a one-way street." is - for most people at any rate - not at all a familiar idea (rating 0: not at all familiar).

1. Noah to not at all	ok two ai	nimals of eac slightly	ch type o	n the Ark. moderately	2	very	3	extremely	4
2. Bloodle not at all	tting, gen	erally accon slightly	nplished	with the aid of moderately	leeches, 2	was thou very	ght to rem	ove "poisons" extremely	" from the blood. \Box_4
3. It was P not at all	resident 1	Kennedy, wł slightly	no was k 1	illed in Dallas i moderately	in 1963.	very	3	extremely	4
4. Snow W not at all	/hite was	sheltered by slightly	v seven d	warfs before m moderately	arrying h	er prince very		extremely	4
5. Calcium not at all	n phospha	tte is a miner slightly	ral salt a	nd is the princip moderately	pal miner	al constit very	uent of bo	ones and teeth extremely	4
6. In the O not at all	october re	volution of 1 slightly	1917 the	Bolsheviks too moderately	k under t	he leader very	ship of Le	enin the power extremely	r in Russia. \Box_4
7. In what not at all	mytholog	gy was Venu slightly	s known	as the Goddes moderately	s of Love	? very	3	extremely	4
		rclays, one o iief executive slightly			ing group	os, was th very	rown into	doubt yesterd	lay with the shock
9. Inspecto not at all	or Morse	who does his slightly	s policing	g in Oxford wa moderately	s invente	d by Coli very	n Dexter.	extremely	4
		pool of light nd of spilt w slightly		in a mesmeric moderately	manner b	ackwards very	and forw $\boxed{}_{3}$	ards picked o extremely	ut from time to
11. Subjec not at all	ts averag	ed 47 second slightly	ls longer	to name ink co moderately	plors of in 2	ncongrue very	nt words t	han solid-colo extremely	a
12. Of cou not at all	orse a cert	ain number of slightly	of scient	ists have to go moderately	mad, just	to keep t very	he traditio	on alive. extremely	4
13. The ar not at all	chaeologi	ist Schliema slightly	nn discov	vered the ruins moderately	of the an 2	cient city very	of Troy.	extremely	4
				current literatu ot dependent o moderately				on the Erickso extremely	on and Mattson
15. Away not at all	ran the gi	rls, too eage slightly	r to get i	n to have time moderately	for speec	h. very	3	extremely	4

6.) How grammatical is the sentence?

"The car is parked in front of the house" is a grammatical sentence, so is "Daffodils, which flower in spring, are yellow" (both: rating 4: extremely grammatical). "The car parking in front of the house" is not grammatical: the verb is missing. Similarly "Daffodils, which grows in spring, is yellow" is not grammatical, as the noun "daffodils" does not match the verbs "grows" and "is". (Both: rating 0: not at all grammatical).

1. Noah to not at all	ok two an \Box_0	nimals of eac slightly	type of 1	n the Ark. moderately	2	very	3	extremely	4
2. Bloodle not at all	tting, gen	erally accon slightly	nplished	with the aid of moderately	leeches, 2	was thoug very	ght to rem	ove "poisons" extremely	from the blood. \Box_4
3. It was P not at all	resident 1	Kennedy, wh slightly	io was ki	lled in Dallas i moderately	n 1963.	very	3	extremely	4
4. Snow W not at all	Thite was 0	sheltered by slightly	seven dy 1	warfs before m moderately	arrying h	er prince. very	3	extremely	4
5. Calcium not at all	1 phospha	te is a miner slightly	al salt an	nd is the princip moderately	$ al miner _2 $	al constitu very	1 ent of bo 3	nes and teeth. extremely	4
6. In the O not at all	ctober re	volution of 1 slightly	917 the 1	Bolsheviks too moderately	k under t	he leaders very	ship of Le	nin the power extremely	in Russia.
7. In what not at all	mytholog	gy was Venu slightly	s known	as the Goddess moderately	s of Love 2	? very	3	extremely	4
		rclays, one o iief executive slightly			ing group	os, was the very	rown into	doubt yesterd extremely	ay with the shock
9. Inspecto not at all	or Morse	who does his slightly	s policing	g in Oxford was moderately	s invented	d by Colii very	n Dexter.	extremely	4
		pool of light nd of spilt wi slightly		in a mesmeric 1 moderately	manner b	ackwards very	and forw	ards picked ou extremely	ut from time to
11. Subjec not at all	ts averag	ed 47 second slightly	ls longer	to name ink co moderately	olors of ir	ncongruen very	nt words th	nan solid-colo extremely	r squares.
12. Of cou not at all	rse a cert	ain number of slightly	of scienti	sts have to go moderately	mad, just	to keep tl very	he traditio	on alive. extremely	4
13. The arc not at all	chaeologi	ist Schliema slightly	nn discov	vered the ruins moderately	of the and 2	cient city very	of Troy.	extremely	4
				current literatu ot dependent of moderately				on the Erickso extremely	n and Mattson
15. Away not at all	ran the gi	rls, too eage slightly	r to get in	n to have time : moderately	for speec 2	h. very	3	extremely	4

7.) How complex is the sentence?

"The cat sat on the mat" is a not at all complex sentence (rating 0: not at all complex), where as "The girl from next door's tortoiseshell cat, which she had received from her great aunt before she emigrated to the West Indies four years ago, sat, contentedly washing, on the burgundy doormat" is a lot more complex (rating 4: extremely complex). Complex sentences may have to be read and reread in order to disentangle them, while not complex sentences are usually understood quickly and don't need to be mentally teased apart.

1. Noah too not at all	bk two an 0	nimals of eac slightly	ch type o	n the Ark. moderately	2	very	3	extremely	4
2. Bloodlet not at all	ting, gen	erally accon slightly	nplished	with the aid of moderately	leeches, 2	was thou; very	ght to rem	ove "poisons" extremely	i from the blood. \Box_4
3. It was Pr not at all	resident 1	Kennedy, wł slightly	no was ki	illed in Dallas i moderately	in 1963.	very	3	extremely	4
4. Snow W not at all	Thite was	sheltered by slightly	v seven d	warfs before m moderately	arrying h	er prince very		extremely	4
5. Calcium not at all	phospha	tte is a miner slightly	ral salt an	nd is the princip moderately	pal miner	al constit very	uent of bo	ones and teeth. extremely	4
6. In the Oo not at all	ctober re	volution of 1 slightly	1917 the	Bolsheviks too moderately	k under t	he leader very	ship of Le	enin the power extremely	in Russia.
7. In what i not at all	mytholog	gy was Venu slightly	is known	as the Goddes moderately	s of Love	very	3	extremely	4
		rclays, one o iief executive slightly			ing group	os, was th very	rown into	doubt yesterd	lay with the shock
9. Inspector not at all	r Morse	who does hi slightly	s policing	g in Oxford wa moderately	s invente	d by Coli very	n Dexter.	extremely	4
		pool of light nd of spilt w slightly		in a mesmeric moderately	manner b	ackwards very	and forw $\boxed{}_{3}$	ards picked or extremely	ut from time to
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12. Of cour not at all	rse a cert	ain number slightly	of scient	ists have to go moderately	mad, just	to keep t very	he traditio	on alive. extremely	4
13. The arc not at all	chaeologi 0	ist Schliema slightly	nn discov	vered the ruins moderately	of the an 2	cient city very	of Troy.	extremely	4
				current literatu ot dependent o moderately				on the Erickso extremely	on and Mattson
15. Away r not at all	an the gi	rls, too eage slightly	er to get i	n to have time moderately	for speec 2	h. very		extremely	4

8.) How formal is the style of the sentence? "I punched the sucker in the nose" is very informal (rating 0: not at all formal), but expressed the same sort of idea as "I struck the unseemly fellow a blow on the proboscis" which is extremely formal. (rating 4: extremely formal).

1. Noah took tw not at all	o animals of eac slightly 0	• 1	e Ark. derately	2	very	3	extremely	4
2. Bloodletting, not at all	generally accon slightly 0	-	the aid of i derately	leeches, $\frac{1}{2}$	was thoug very	ght to rem	ove "poisons" extremely	from the blood. 4
3. It was Preside not at all	nt Kennedy, wh slightly 0		in Dallas iı derately	n 1963.	very	3	extremely	4
4. Snow White not at all	was sheltered by slightly 0		s before ma derately	arrying h	er prince. very	3	extremely	4
5. Calcium phos not at all	phate is a miner slightly 0		the princip derately	al minera	al constitu very		nes and teeth. extremely	4
6. In the Octobe not at all	r revolution of 1 slightly 0		sheviks tool derately	x under the second sec	he leaders very	ship of Le	nin the power extremely	in Russia.
7. In what mythe not at all	ology was Venu slightly		he Goddess derately	of Love 2	? very	3	extremely	4
8. The future of resignation of it not at all		e, Martin Tay		ng group	os, was thi very	rown into	doubt yesterd extremely	ay with the shock
9. Inspector Mo not at all	rse who does his slightly 0		Oxford was derately	invented 2	l by Colii very	n Dexter.	extremely	4
10. This particul time a long red in not at all		ine.	mesmeric n derately	nanner ba	ackwards very	and forw	ards picked ou extremely	It from time to
11. Subjects ave not at all	raged 47 second slightly		ame ink co derately		icongruen very	at words th	han solid-colo extremely	r squares.
12. Of course a not at all	certain number o slightly 0		nave to go r derately	nad, just	to keep tl very	he tradition 3	on alive. extremely	4
13. The archaeo not at all	logist Schliemai slightly 0		the ruins o derately	of the and 2	cient city very	of Troy.	extremely	4
14. These result (1981) claim that not at all		sion is not de					on the Erickso extremely	n and Mattson
15. Away ran th not at all	e girls, too eage slightly 0		have time f derately	For speecl	h. very	3	extremely	4

9.) How natural is the sentence?

A natural sentence is one that you might have occasion to use in the real world. Thus "The car is parked in front of the house" is a natural sentence (rating 4: extremely natural), whereas "There is a hippo in the fridge" or "My mother has a halo" are not at all natural (rating 0: not at all natural).

1. Noah to not at all	ok two ai \Box_0	nimals of eac slightly	h type o	n the Ark. moderately	2	very	3	extremely	4
2. Bloodle not at all	tting, gen	erally accon slightly	nplished	with the aid of moderately	leeches, 2	was thoug very	ght to rem	ove "poisons" extremely	' from the blood. \Box_4
3. It was P not at all	resident 1	Kennedy, wh slightly	io was ki	illed in Dallas i moderately	n 1963.	very	3	extremely	4
4. Snow W not at all	hite was	sheltered by slightly	seven d	warfs before m moderately	arrying h	er prince very		extremely	4
5. Calcium not at all	n phospha	te is a miner slightly	al salt ar	nd is the princip moderately	2 pal miner	al constit very	uent of bo	ones and teeth. extremely	4
6. In the O not at all	october re	volution of 1 slightly	917 the	Bolsheviks too moderately	k under t	he leader: very	ship of Le	enin the power extremely	in Russia. 4
7. In what not at all	mytholog	gy was Venu slightly	s known	as the Goddes moderately	s of Love 2	? very	3	extremely	4
		clays, one of ief executive slightly			ing group	os, was th very	rown into	doubt yesterc	lay with the shock
9. Inspecto not at all	or Morse	who does his slightly	policing	g in Oxford wa moderately	s invente	d by Coli very	n Dexter.	extremely	4
		pool of light nd of spilt wi slightly		in a mesmeric 1 moderately	manner b	ackwards very	and forw	ards picked of extremely	at from time to
11. Subjec not at all	ts averag	ed 47 second slightly	ls longer	to name ink co moderately	plors of in 2	ncongruer very	nt words t	han solid-colo extremely	r squares. 4
12. Of cou not at all	rse a cert	ain number o slightly	of scienti	ists have to go a moderately	mad, just	to keep t very	he traditio	on alive. extremely	4
13. The arc not at all	chaeologi	ist Schliema slightly	nn discov	wered the ruins moderately	of the and 2	cient city very	of Troy.	extremely	4
				current literatu ot dependent or moderately				on the Erickso extremely	on and Mattson
15. Away : not at all	ran the gi	rls, too eage slightly	r to get i	n to have time moderately	for speec \square_2	h. very	3	extremely	4

10.) How literally is the sentence meant?

If a sentence is very literal, the words mean what they say. For example, "The jar is on the table" probably does refer to a jar which is placed on top of a table (rating 4: extremely literal), while "It's raining cats and dogs" is not at all about mammals falling from the sky (rating 0: not at all literal). Similarly "Can you open the window?" is not usually very literal at all, as in most cases it would be used in a context that was not about discovering the addressee's ability to open the window (rating 1: slightly literal).

1. Noah to not at all	ook two a	nimals of ea slightly	ch type o	on the Ark. moderately	2	very	3	extremely	4
2. Bloodle not at all	etting, ger	nerally accor slightly	nplished	with the aid of moderately	The eches, 2	was thou very	ight to rem	nove "poisons" extremely	" from the blood. 4
3. It was P not at all	President	Kennedy, wi slightly	ho was k 1	illed in Dallas moderately	in 1963.	very	3	extremely	4
4. Snow W not at all	White was	sheltered by slightly	y seven d	warfs before n moderately	narrying h	ner prince very	e	extremely	4
5. Calciun not at all	n phospha	ate is a mine slightly	ral salt a	nd is the principology moderately	pal miner	al constit very	tuent of bo	ones and teeth extremely	
6. In the C not at all	October re	evolution of slightly	1917 the	Bolsheviks too moderately	ok under t	he leader very	cship of Le	enin the power extremely	r in Russia.
7. In what not at all	mytholo	gy was Vent slightly	is known	as the Goddes moderately	s of Love	e? very	3	extremely	4
		rclays, one o nief executiv slightly			ting group	ps, was th very	arown into	doubt yesterd	day with the shock
9. Inspecto not at all	or Morse	who does hi slightly	s policing	g in Oxford wa moderately	as invente	d by Coli very	in Dexter.	extremely	4
		pool of light nd of spilt w slightly		in a mesmeric moderately	manner b	oackwards very	s and forw	ards picked o	ut from time to
11. Subjec not at all	cts averag	ged 47 secon slightly	ds longer	to name ink control of the moderately	olors of in 2	ncongrue very	nt words t	han solid-colo extremely	a
12. Of cou not at all	urse a cer	tain number slightly	of scient	ists have to go moderately	mad, just	to keep t very	the tradition 3	on alive. extremely	4
13. The ar not at all	chaeolog	ist Schliema slightly	nn discov	vered the ruins moderately	of the an 2	cient city very	y of Troy.	extremely	4
				current literatu ot dependent o moderately			-	on the Erickso extremely	on and Mattson
15. Away not at all	ran the g	irls, too eage slightly	er to get i	n to have time moderately	for speec 2	h. very	3	extremely	4

11.) Underline the part of each sentence that the main focus is placed upon.

For example, "<u>Newton</u> discovered gravity by having an apple fall on his head" or "<u>The mist</u> has dispersed a bit, but it is still a very gloomy looking swamp".

1. Noah took two animals of each type on the Ark.

2. Bloodletting, generally accomplished with the aid of leeches, was thought to remove "poisons" from the blood.

3. It was President Kennedy, who was killed in Dallas in 1963.

4. Snow White was sheltered by seven dwarfs before marrying her prince.

5. Calcium phosphate is a mineral salt and is the principal mineral constituent of bones and teeth.

6. In the October Revolution of 1917 the Bolsheviks took under the leadership of Lenin the power in Russia.

7. In what mythology was Venus known as the Goddess of Love?

8. The future of Barclays, one of Britain's biggest banking groups, was thrown into doubt yesterday with the shock resignation of its chief executive, Martin Taylor.

9. Inspector Morse, who does his policing in Oxford was invented by Colin Dexter.

10. This particular pool of light moving in a mesmeric manner backwards and forwards picked out from time to time a long red island of spilt wine.

11. Subjects averaged 47 seconds longer to name ink colors of incongruent words than solid-color squares.

12. Of course a certain number of scientists have to go mad, just to keep the tradition alive.

13. The archaeologist Schliemann discovered the ruins of the ancient city of Troy.

14. These results are consistent with the current literature on focalizaton and question the Erickson and Mattson (1981) claim that the Moses illusion is not dependent on a misdirection of focus.

15. Away ran the girls, too eager to get in to have time for speech.

Thank you very much for taking part in this study!

Appendix 8: "The War of the Ghosts" as used by Bartlett (1995[1932])

One night two young men from Egulac went down to the river to hunt seals, and while they were there it became foggy and calm. Then they heard war-cries, and they thought: "Maybe this is a war-party". They escaped to the shore, and hid behind a log. Now canoes came up, and they heard the noise of paddles, and saw one canoe coming up to them. There were five men in the canoe, and they said:

"What do you think? We wish to take you along. We are going up the river to make war on the people".

One of the young men said: "I have no arrows".

"Arrows are in the canoe", they said.

"I will not go along. I might be killed. My relatives do not know where I have gone. But you", he said, turning to the other, "may go with them."

So one of the young men went, but the other returned home. And the warriors went on up the river to a town on the other side of Kalama.

The people came down to the water, and they began to fight, and many were killed. But presently the young man heard one of the warriors say: "Quick, let us go home, that Indian has been hit".

Now he thought: "Oh, they are ghosts".

He did not feel sick, but they said he had been shot.

So the canoes went back to Egulac, and the young man went ashore to his house, and made a fire. And he told everybody and said: "Behold I accompanied the ghosts, and we went to fight. Many of our fellows were killed, and many of those who attacked us were killed. They said I was hit, and I did not feel sick".

He told it all, and then he became quiet. When the sun rose he fell down. Something black came out of his mouth. His face became contorted. The people jumped up and cried. He was dead. For Section 1.

Below you are going to see a series of 52 statements. Some of these statements are correct and contain everyday trivia or facts. Such sentences are considered to be "NATURAL". Some of the statements contain elements that are incorrect thus making the sentence "UNNATURAL". (Please take myths and legends on their own terms: if that's how the story goes, it's "natural" for the purposes of this quiz.)

Your task is to read each statement and to judge which category each sentence belongs to and then to indicate (by placing an "X" in the brackets [] next to your choice of answer)

EITHER "NATURAL" OR "UNNATURAL".

Please note that this research is as much concerned with your immediate reaction as with your actual answer, so please respond promptly. If you should wish to correct an answer you have made, please indicate this by placing a "1" in the bracket by your immediate response, and a "2" in the bracket by your final response.

For Section 2.

Please do not look at part 2 until you have completed section 1.

Section 2. consists of 12 multiple-choice questions. Please enter the letter corresponding to your choice of answer in the space provided.

Thank you very much for taking part!

Section 1.

1. This year's Olympic Games took place i NATURAL []	n Sydney. UNNATURAL []
2. The easiest planet to see in the night sky NATURAL []	v is Venus. UNNATURAL []
3. The Princess of Wales died in a train cra NATURAL []	ash in Paris. UNNATURAL []
4. Aesop is best known for writing fables. NATURAL []	UNNATURAL []
5. Kimono-clad Geishas are a type of Chin NATURAL []	ese courtesan. UNNATURAL []
6. The most famous six-word phrase from NATURAL []	the first Star Wars UNNATURAL [
7. Every leap year the 29th of February is s NATURAL []	skipped. UNNATURAL []
8. The longest river in the world is the Tha NATURAL []	imes. UNNATURAL []
9. The Greek hero Paris fell madly in love NATURAL []	with Helen, the mo UNNATURAL [
10. The Red Sea separates Africa from Asi NATURAL []	ia. UNNATURAL []
11. Moses took two animals of each kind of NATURAL []	on the Ark. UNNATURAL []
12. Claustrophobic people are afraid of end NATURAL []	closed spaces. UNNATURAL []
13. Mount Everest is the highest mountain NATURAL []	in the world. UNNATURAL []
14. In the mid-nineteenth century Ireland I NATURAL []	ost much of its pop UNNATURAL [
15. In 1789, Abraham Lincoln was made to NATURAL []	the first President o UNNATURAL [
16. China is the largest country in the worl NATURAL []	d. UNNATURAL []
17. Gershwin wrote a piece of music called NATURAL []	1 'An American in UNNATURAL [
18. The fastest growing plant in the world NATURAL []	is the bamboo. UNNATURAL []
19. Because he fell asleep while watching NATURAL []	them, King Arthur UNNATURAL [
20. Penguins live only in the Antarctic. NATURAL []	UNNATURAL []

^{21.} The light from the Sun takes 8 minutes and 20 seconds to reach the Earth.

NATURAL []	UNNATURAL []
22. The fastest thing we know is sound. NATURAL []	UNNATURAL []
23. In 1949, Siam became known as Vietna NATURAL []	am. UNNATURAL []
24. Robin Hood, the famous outlaw of She NATURAL []	rwood Forest, was enamoured of Maid Marion. UNNATURAL []
25. Hannibal used elephants when he atten NATURAL []	npted to march on Rome. UNNATURAL []
26. In August 1999 a total eclipse of the su NATURAL []	n was visible from parts of England. UNNATURAL []
27. While trying to hide from God, Joshua NATURAL []	fell into the sea and was swallowed by a whale. UNNATURAL []
28. The world's worst nuclear disaster tool NATURAL []	c place in 1986 in Chernobyl. UNNATURAL []
29. The laws of divorce allowed Henry VII NATURAL []	I to get rid of two of his eight wives. UNNATURAL []
30. The first object invented by humans that NATURAL []	at travelled faster than the speed of sound was a whip. UNNATURAL []
31. The Trojans lost the war because they be NATURAL []	prought the wooden horse full of Greek warriors into their city. UNNATURAL []
32. The planet that is closest to the Sun is NATURAL []	Neptune. UNNATURAL []
33. Charles Lindbergh was the first man to NATURAL []	fly across the Pacific on his own. UNNATURAL []
34. The evil queen was jealous of Snow W NATURAL []	hite's beauty, and so wanted to have her killed. UNNATURAL []
35. The Model T Ford was the world's first NATURAL []	mass-produced car. UNNATURAL []
36. There are more numbers in the Cyrillic NATURAL []	alphabet than there are in ours. UNNATURAL []
37. If an earthworm is cut in half, both halv NATURAL []	ves survive. UNNATURAL []
38. The imaginary lines that dived the earth NATURAL []	n from north to south are lines of longitude. UNNATURAL []
 39. BBC One now show their main evening NATURAL [] 40. The most expensive spice in the world NATURAL [] 	UNNATURAL []
41. Captain Nemo was obsessed with hunti NATURAL []	ng down the white whale Moby Dick. UNNATURAL []
42. Tides are caused mainly by the gravitat NATURAL []	ional pull of the Moon, but also by that of the Sun. UNNATURAL []

39

- 43. The greatest coral deposit in the world lies off the coast of Australia. NATURAL [] UNNATURAL []
- 44. Braille invented a script of embossed dots to allow deaf people to learn to read.
 NATURAL [] UNNATURAL []
- 45. The Romans built Hadrian's Wall as the northern boundary of Roman Britain. NATURAL [] UNNATURAL []
- 46. The sense that suffers the greatest damage after someone is struck by lightning is the sense of hearing.
 NATURAL [] UNNATURAL []
- 47. Catherine the Great was a queen of Sweden. NATURAL [] UNNATURAL []
- 48. The liner ship Titanic hit an iceberg and sank. NATURAL [] UNNATURAL []
- 49. Adolf Hitler was the Leader of the Third Reich. NATURAL [] UNNATURAL []
- 50. To date, Gauguin's Sunflowers have fetched the highest price at auction of any painting. NATURAL [] UNNATURAL []
- 51.Grasses are the most common type of plant on Earth. NATURAL [] UNNATURAL []
- 52. The Richter scale measures the force of an earthquake. NATURAL [] UNNATURAL []

Example of the knowledge check used in Experiment 4a.

Section 2. Knowledge check.

Please indicate for each of the following statements which option (a), (b), (c) or (d) best fits in the gap in order to make the statement "natural." If you do not know the answer at all, please indicate this.

1	_took two animals of e (a)Noah	each kind on the Ark. (b)Moses	(c)Adam	(d)Esau
2. Because	he fell asleep while wa a)Edward	tching them, King (b)Wenceslas		
3.Everylea	pyearthe29thofFebruar (a)is skipped (b)		ıblic holiday (d)is th	ne first day of Lent
4. In 1789,	was mad (a)Abraham Lincoln			merica. 1 (d)Teddy Roosevelt
5. Kimono-	-clad Geishas are a type (a)Thai	e ofcourtes (b)Japanese		(d)Turkish
6. Captain	(a)Ahab	ed with hunting down (b)Kirk		Dick. (d)Nemo
7.Charles I	Lindbergh was the first (a)Indian Ocean		on his ow (c)Pacific Ocean	
8. To date,	Sunflowe (a)Picasso's			f any painting. (d)Van Gogh's
9. There are	e more in (a)numbers	the Cyrillic alphabet th (b)letters		(d)integers
10. Braille	invented a script of em (a)blind			ead. (d)lame
11. The law	vs of divorce allowed H	Ienry VIII to get rid of	two ofwiv	es.
	(a)4	(b)6	(c)8	(d)10
12. While t	rying to hide from Goo (a)Jonah	l, fell into (b)Jesus	the sea and was swall (c)Jeremiah	owed by a whale. (d)Joshua

End of section 2.

Thank you very much for taking part.

Appendix 10: Example of the questionnaire used in Experiment 4b

Sentence puzzle quiz

For Section 1.

Below you will see a series of 26 sentence puzzles. Each of these puzzles consists of a number of meaningful components represented by one or more words in square brackets (e.g. **[Last year's], [took place], [in Sydney], [Olympic Games]**). Please look carefully at the sentence components. **Without** changing any of these components, is it possible to combine all of the components into a truthful statement? Please circle the appropriate answer. If you answer YES, please write down the sentence, if you answer NO, please note down why it does not work. So for the example above, the correct answer would be "YES" and the truthful statement would be "Last year's Olympic Games took place in Sydney." (N.B. the first element of each sentence starts with a capital letter.)

And here is another example:

[released], [Ali Baba], [the lamp], [by rubbing], [the genie]

The correct answer in this case would be NO. While the components could be made into a coherent statement ("Ali Baba released the genie by rubbing the lamp."), the statement itself is not true: Aladdin rubbed the lamp, not Ali Baba.

Alternatively the answer could be wrong for another reason:

e.g. [the Prime Minister], [Tony Blair], [of the United Kingdom]

The correct answer in this case is NO because there is no verb, and therefore the components cannot be turned into a truthful complete sentence.

For Section 2.

Please do not look at section 2 until you have completed section 1.

Section 2 consists of 6 multiple-choice questions. Please answer these as accurately as possible.

Thank you very much for taking part in this study.

Section 1.

YES	NO
2. [died] [The Princ	cess of Wales] [in a train crash] [in Paris]
YES	NO
3. [measures] [of an	n earthquake] [The Richter scale] [the force]
YES	NO
4. [the first Presider	nt] [was made] [Abraham Lincoln] [of the United States of America]
YES	NO
5. [people] [of enclo	osed spaces] [are afraid] [Claustrophobic]
YES	NO
6. [mountain] [the h	nighest] [Mount Everest] [in the world] [is]
YES	NO
7. [in the world] [th	e fastest growing] [is] [The bamboo] [plant]
YES	NO
8. [two animals] [of	f each kind] [Moses] [took] [on the Ark]
YES	NO
9. [in the Antarctic]] [live] [Penguins] [only]
YES	NO
10. [we know] [The	e fastest] [thing] [is] [sound]
YES	NO
11. [the Earth] [The	e light] [to reach] [takes approximately] [from the Sun] [8 minutes and 20 seconds
YES	NO
12. [Robin Hood] [0	of Sherwood Forest] [Maid Marion] [the famous outlaw] [was enamoured of]
12. [Robin Hood] [a YES	of Sherwood Forest] [Maid Marion] [the famous outlaw] [was enamoured of] NO
YES	

14. [While] [by a wh YES	nale] [trying] [Joshua] [fell] [into the sea] [and] [was swallowed] [to hide from God] NO
15. [The first object]	[by humans] [invented] [that] [moved] [the speed of sound] [faster than] [was] [the
tip of a whip]	
YES	NO
16. [the wooden horse	se] [The Trojans] [lost the war] [because] [into their city] [they brought] [full of
Greek Warriors]	
YES	NO
17. [on his own] [Ch	arles Lindbergh] [the first man] [was] [to fly] [across the Pacific]
YES	NO
18. [If] [survive] [an	earthworm] [is cut in half] [both halves]
YES	NO
19. [the Nile] [river]	[The longest] [in the world]
YES	NO
20. [than there are] [in the Cyrillic alphabet] [There are] [more numbers] [in ours]
YES	NO
21. [The imaginary l	ines] [the earth] [are] [from north to south] [lines of longitude] [that divide]
YES	NO
22. [Tides] [by that of	of the Sun] [mainly] [by the gravitational pull] [of the Moon] [but also] [are caused]
YES	NO
23. [off the coast of	Australia] [The greatest] [in the world] [coral deposit] [lies]
YES	NO
24. [to read] [Braille	[invented] [to allow] [deaf people] [a script of embossed dots]
YES	NO
25. [The Romans] [c	of Roman Britain] [built] [Hadrian's Wall] [at the northern boundary]
YES	NO
26. [and] [hit] [an ice	eberg] [The liner ship] [sank] [Titanic]
YES	NO

End of Section 1.

Section 2. Knowledge Check

Please indicate for each of the following statements which option (a), (b), (c) or (d) best fits the gap in order to make the statement truthful. if you do not know the answer at all, please indicate this.

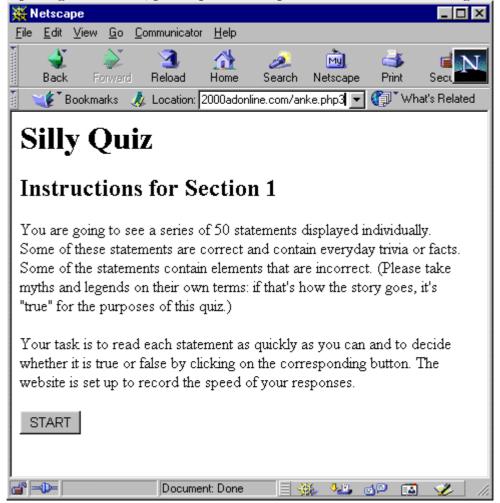
1 took two animals	of each kind on the Ark.		
(a)Noah	(b) Moses	(c) Adam	(d) Esau
2 was made the first	t President of the United S	States of America.	
(a) Abraham Lincoln	(b) George Bush	(c) George Washington	(d) Teddy Rooseveldt
3. Charles Lindbergh was the	e first man to fly across th	ne on his own.	
(a) Indian Ocean	(b) Atlantic Ocean	(c) Pacific Ocean	(d) Bering Sea
4. There are more in	the Cyrillic alphabet that	there are in ours	
(a) numbers	(b) digits	(c) letters	(d) integers
5. Braille invented a script o	f embossed dots to allow_	people to read.	
(a) blind	(b) dumb	(c) deaf	(d) lame
6. While trying to hide from	God, fell into the	sea and was swallowed by	a whale.
(a) Jonah	(b) Jesus	(c) Jeremiah	

End of Section 2.

Thanks again for taking part!

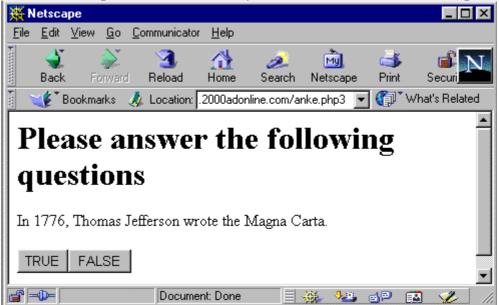
If you want to know more about my research, email me on <u>abuttner@brookes.ac.uk</u>, and I'll try to answer your questions.

Appendix 11: Screen-captures of the website used in Experiment 5

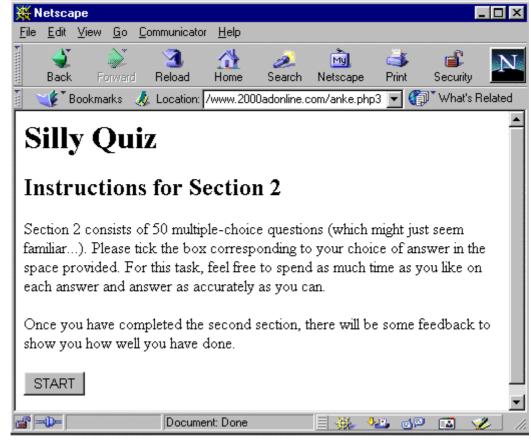


When opening the website, participants were presented with the following screen:

The sentences were presented individually, with true/false buttons for responses:



Once the verification task was finished, the knowledge check instructions were displayed:



All knowledge check statements were presented on the same page, with a 'tickable' dot next to each suggested answer, for participants to mark their responses.

Provide lines						
💥 Netscape						_ 🗆 ×
<u>File E</u> dit <u>V</u> iew <u>G</u> o	<u>C</u> ommunicator <u>H</u> e	lp				
Back Forwar	a Reload Hor	all and a second se	My Netscape	de Seria de	💕 Security	Sh N
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GENER			EDO	GE Q	QUIZ	2
In 1776, Thoma	s Jefferson wrote	the				
Constitution of th USA C	ne Declaration Independer		Domesd C	ay book	Magna (O	Carta
Albert Schweitze	er was a missiona	ry doctor in .				
Africa 💿	America C	Asia	0	Australia	0	
King proved he was the rightful King by drawing the sword from the stone.						
Alfred C	Arthur C	Henry V C	B	ichard ∏	10	
		-				
	Document: D	one	1	, 9 29, e	19 🖪	🌮 //

Target sentences were	identical for the two	groups and are	presented in <i>italics</i> .
		$\boldsymbol{\Theta}$	

'Mostly False'	'Mostly True'
In 1776, Thomas Jefferson wrote the Magna Carta.	In 1776, Thomas Jefferson wrote the Declaration of
	Independence.
Albert Schweitzer was a missionary doctor in	Albert Schweitzer was a missionary doctor in
Africa.	Australia.
King Richard III proved he was the rightful King	King Arthur proved he was the rightful King by
by drawing the sword from the stone.	drawing the sword from the stone.
Socrates was the greatest physician of antiquity	Socrates was the greatest physician of antiquity
and is regarded as the father of medicine.	and is regarded as the father of medicine.
Pierce Brosnan was the first James Bond actor in	Sean Connery was the first James Bond actor in the
the movie "Dr. No" in 1962.	movie "Dr. No" in 1962.
"Snow White and the seven Gnomes" was the first	"Snow White and the seven Dwarfs" was the first
full-length animated film produced by Walt	full-length animated film produced by Walt
Disney.	Disney.
The Egyptians mummified their dead to help the	The Egyptians mummified their dead to prevent the
bodies decompose more rapidly.	bodies from decomposing.
Sound waves travel at 1100 meters per second	Sound waves travel at 1100 meters per second
through the air.	through the air.
The first printing press was built by Johannes	The first printing press was built by Johannes
Gutenberg in Germany and used to print a Bible.	Gutenberg in Switzerland and used to print a Bible.
The surrealist artist M. C. Escher painted many	The surrealist artist Salvador Dali painted many
strange pictures, including one of melting clocks	strange pictures, including one of melting clocks
and one of swans reflecting elephants.	and one of swans reflecting elephants.
The young of bats like the young of dogs are called	The young of bats like the young of dogs are called
pups.	cubs.
Snowdon in Scotland is the highest mountain in the British Isles.	Ben Nevis in Scotland is the highest mountain in the British Isles.
"Also sprach Zarathustra" which has been used	"Also sprach Zarathustra" which has been used
as the film music for "2001" was composed by	
	as the film music for "2001" was composed by
	as the film music for "2001" was composed by Richard Wagner.
Richard Wagner.	Richard Wagner.
Richard Wagner. Reptiles skin is usually silky to the touch.	<i>Richard Wagner.</i> Reptiles skin is usually slimy to the touch.
Richard Wagner.Reptiles skin is usually silky to the touch.The lead role in the TV series "Buffy the Vampire	Richard Wagner. Reptiles skin is usually slimy to the touch. The lead role in the TV series "Buffy the Vampire
Richard Wagner.Reptiles skin is usually silky to the touch.The lead role in the TV series "Buffy the VampireSlayer" is played by Judy Dench.	Richard Wagner. Reptiles skin is usually slimy to the touch. The lead role in the TV series "Buffy the Vampire Slayer" is played by Sarah Michelle Gellar.
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	The second is to the law and and it is the second it
The black widow spider is the largest spider in the world.	The tarantula is the largest spider in the world.
A kelpie was a water spirit in folklore that could	A selkie was a water spirit in folklore that could
slip out of its seal skin to turn into a beautiful	slip out of its seal skin to turn into a beautiful
human.	human.
Stonehenge is the most famous stone circle in	Stonehenge is the most famous dolmen in
existence.	existence.
The Statue of Liberty was given to the USA by	The Statue of Liberty was given to the USA by
England.	France.
In 1605, the Gun Powder Plot failed when Oliver	In 1605, the Gun Powder Plot failed when Guy
Cromwell was seized before he could blow up the	Fawkes was seized before he could blow up the
English Parliament.	English Parliament.
Lady Godiva rode naked through the market-	Lady Godiva rode naked through the market-
place of Newcastle, so that her husband would	place of Newcastle, so that her husband would
reduce the taxes on the populace.	reduce the taxes on the populace.
Franklin D. Roosevelt was re-elected for a fourth	Franklin D. Roosevelt resigned after 3 terms in
term after 3 terms in office.	office.
Alexander Graham Bell invented the light bulb.	Alexander Graham Bell invented the telephone.
There are 42 dots on a pait of dice.	There are 36 dots on a pait of dice.
"Give me somewhere to stand," said Pythagoras,"	"Give me somewhere to stand," said Pythagoras,"
and I will move the earth."	and I will move the earth."
The name for a winged horse that rises from the	The name for a beautiful bird that rises from the
ashes of its own funeral pyre in classical	ashes of its own funeral pyre in classical
mythology is Phoenix.	mythology is Phoenix.
Napoleon Bonaparte was born on the	Napoleon Bonaparte was born on the
Mediterranean island of Jersey.	Mediterranean island of Corsica.
Thieves tried to steal diamonds from the Millenium	Thieves tried to steal diamonds from the National
Dome at Greenwich shortly before it was closed	Maritime Museum at Greenwich shortly before it
down.	was closed down.
A claymore was a two-handed sword used by Irish	A claymore was a two-handed sword used by
highlanders.	Scottish highlanders.
George Washington was the first president of the	Abraham Lincoln was the first president of the
USA to be assassinated.	USA to be assassinated.
Hitler wrote his book "Mein Kampf" before he	Hitler wrote his book "Mein Kampf" before he
came to power in 1945.	came to power in 1945.
Antarctica is the only continent without reptiles or	Europe is the only continent without reptiles or
snakes.	snakes.
While trying to hide from God, Joshua fell into	While trying to hide from God, Joshua fell into
the sea and was swallowed by a whale.	the sea and was swallowed by a whale.
Greenwich Mean Time first became accepted in	Greenwich Mean Time first became accepted in
Britain with the growth of the railways in the late	Britain with the growth of the railways in the late
15th century.	19th century.
Ebenezer Scrooge's catchphrase in Dickens' "A	Ebenezer Scrooge's catchphrase in Dickens' "A
Christmas Carol" was "I don't believe it!".	Christmas Carol" was "Bah humbug!".
Libra the scales is the only inanimate symbol in the	Libra the scales is the only non-animal symbol in the Zodiac.
Zodiac.	
The name of the Wednesday before Easter is Ash Wednesday	The name of the first Wednesday of Lent is Ash Wednesday
Wednesday. There are 26 numbers in the Roman alphabet.	Wednesday. There are 26 numbers in the Roman alphabet.
Psychology is the study of all aspects of human life	Anthropology is the study of all aspects of human
and culture.	life and culture.
	me and culture.

(Correct target word in parentheses.)

- Wellington's (Nelson's) victory is commemorated by his column in Trafalgar Square.
- 2. Jacob (Joseph) was given a coat of many colours by his father.
- 3. The eruption of Mount Etna (Vesuvius) destroyed the Roman city of Pompeii.
- 4. Snow White (Sleeping Beauty) slept for 100 years after she pricked her finger.
- At the end of the 15th century Australia (America) was discovered by Christopher Columbus.
- 6. David killed the giant Samson (Goliath) with his slingshot.
- 7. Jane Marple (Agatha Christie) created Hercule Poirot the Belgian detective.
- 8. The mysterious Mona Lisa is Michelangelo's (Leonardo's) most famous painting.
- 9. By rubbing the lamp, Ali Baba (Aladdin) released the genie.
- 10. Moses (Noah) took two animals of each kind on the Ark.
- 11. The Beatles began their career in Manchester (Liverpool) at the Cavern Club.
- 12. Because he fell asleep while watching them, King Arthur (King Alfred) allowed the cakes to burn.
- 13. The 29th of February is skipped (is added) in every leap year.
- In 1789, Abraham Lincoln (George Washington) became the first President of the United States.

- 15. The kimono-clad courtesans who perform the Chinese (Japanese) tea ceremony are called Geishas.
- 16. Captain Nemo (Ahab) was obsessed with hunting down Moby Dick the white whale.
- Charles Lindbergh was the first man to fly across the Pacific Ocean (Atlantic Ocean) on his own.
- 18. Gauguin's (Van Gogh's) Sunflowers have fetched the highest price of any painting at auction to date.
- 19. There are more numbers (letters) in the Cyrillic alphabet than there are in ours.
- 20. Braille invented a script of embossed dots to allow deaf (blind) people to read.
- 21. The laws of divorce allowed Henry the Eighth to get rid of two of his 8 (6) wives.
- 22. While trying to hide from God, Joshua (Jonah) fell into the sea and was swallowed by a whale.

23. The deadliest of all insects (arachnids) is the black widow spider.

24. Frank Sinatra's (Bing Crosby's) "White Christmas" is the highest-grossing holiday song of all time.

As official Ethics approval procedures for psychological research at Oxford Brookes University were not yet formalised for much of the time during which the research for this thesis was carried out, ethics approval for most of the experiments presented was given on a fairly informal basis by the Psychology Department's Ethics Officer. By the time Experiments 6a and 6b were carried out, official procedures had been instated, and an Ethics Approval form (E1) was included in the original printed dissertation.