

Experiment 1 Materials

Item	cue	target	Item Type	FSG	BSG	LSA
1	COUGAR	CAT	related, forward	0.42	0	.18
2	CEILING	FLOOR	related, forward	0.22	0.16	.72
3	COLLAR	DOG	related, forward	0.2	0	.34
4	FORK	KNIFE	related, forward	0.37	0.33	.34
5	PEAR	APPLE	related, forward	0.25	0.05	.29
6	CRATER	MOON	related, forward	0.4	0	.33
7	HORNET	BEE	related, forward	0.46	0	.42
8	LUMBER	WOOD	related, forward	0.6	0	.71
9	REFRIDGERATOR	FOOD	related, forward	0.42	0	.31
10	SHEET	PAPER	related, forward	0.43	0.01	.40
11	WINGS	BIRD	related, forward	0.48	0.04	.78
12	DISH	PLATE	related, forward	0.32	0.23	.32
13	DITCH	HOLE	related, forward	0.28	0	.31
14	CAMERA	PICTURE	related, forward	0.44	0.05	.56
15	PAIL	WATER	related, forward	0.23	0	.34
16	SKATE	ICE	related, forward	0.25	0.02	.32
17	TRACTOR	TRAILER	related, forward	0.33	0.03	.33
18	HAYSTACK	NEEDLE	related, forward	0.42	0.03	.06
19	MINER	COAL	related, forward	0.5	0.05	.42
20	RUG	CARPET	related, forward	0.47	0.25	.56
21	BABY	CRIB	related, backward	0.03	0.84	.64
22	BED	MATTRESS	related, backward	0.03	0.54	.63
23	BEACH	SHORE	related, backward	0.01	0.46	.78
24	WEIGHT	SCALE	related, backward	0.01	0.53	.18
25	CHICKEN	HEN	related, backward	0.02	0.45	.52
26	CAR	TIRE	related, backward	0.01	0.4	.59
27	EGGS	OMELET	related, backward	0.03	0.84	.07
28	FLOWER	TULIP	related, backward	0.01	0.78	.69
29	ELEPHANT	TUSK	related, backward	0.01	0.66	.20
30	GLASSES	LENS	related, backward	0.02	0.55	.26
31	KING	CROWN	related, backward	0.02	0.47	.48
32	HOUSE	BRICK	related, backward	0.01	0.4	.28
33	SHEEP	SHEPHERD	related, backward	0.01	0.52	.51
34	SOAP	SUDS	related, backward	0.04	0.6	.23
35	LUNCH	BREAKFAST	related, backward	0.01	0.47	.62
36	MUSIC	BAND	related, backward	0.02	0.43	.61
37	PLACE	LOCATION	related, backward	0.02	0.48	.40
38	PIE	CRUST	related, backward	0.02	0.46	.12
39	PIANO	KEYBOARD	related, backward	0.012	0.36	.13
40	SMOKE	PIPE	related, backward	0.02	0.42	.34
41	BRIDGE	FACE	unrelated	n/a	n/a	.22

42	GARDEN	TELEPHONE	unrelated	n/a	n/a	.24
43	BALLOON	LAKE	unrelated	n/a	n/a	.01
44	FISH	KNEE	unrelated	n/a	n/a	.06
45	BLANKET	STONE	unrelated	n/a	n/a	.11
46	CRUTCH	DRILL	unrelated	n/a	n/a	.02
47	LEMONADE	DESK	unrelated	n/a	n/a	.20
48	WAGON	VILLAGE	unrelated	n/a	n/a	.04
49	HALL	RADIO	unrelated	n/a	n/a	.07
50	SALT	TOWER	unrelated	n/a	n/a	.03
51	WIRE	NAPKIN	unrelated	n/a	n/a	.02
52	JACKET	MAGNET	unrelated	n/a	n/a	-.01
53	HAT	ISLAND	unrelated	n/a	n/a	.26
54	MACHINE	NOTE	unrelated	n/a	n/a	.31
55	ROAD	UNIFORM	unrelated	n/a	n/a	.27
56	SPOT	BOTTLE	unrelated	n/a	n/a	.26
57	CHAIN	FAMILY	unrelated	n/a	n/a	.21
58	GAME	PEOPLE	unrelated	n/a	n/a	.26
59	SHIP	CLAY	unrelated	n/a	n/a	.20
60	CLAY	GROUND	unrelated	n/a	n/a	.10

Experiment 2 Materials

Item	cue	target	Item Type	FSG	BSG	LSA
1	BOMB	SNAKE	unrelated	n/a	n/a	.08
2	BULLETS	FAILURE	unrelated	n/a	n/a	.05
3	BURN	DEBT	unrelated	n/a	n/a	.03
4	CORPSE	DIVORCE	unrelated	n/a	n/a	.07
5	DAMAGE	THORN	unrelated	n/a	n/a	.06
6	FUNGUS	RAGE	unrelated	n/a	n/a	.0
7	GRIEF	LICE	unrelated	n/a	n/a	.06
8	INSULT	FLOOD	unrelated	n/a	n/a	.08
9	PRISON	CANCER	unrelated	n/a	n/a	.02
10	ROBBER	ACHE	unrelated	n/a	n/a	.07
11	SURGERY	SLUM	unrelated	n/a	n/a	.05
12	BANNER	ELEVATOR	unrelated	n/a	n/a	-.01
13	BUTTER	AVENUE	unrelated	n/a	n/a	.03
14	CONTEXT	BASKET	unrelated	n/a	n/a	.03
15	ITEM	COAST	unrelated	n/a	n/a	.03
16	FABRIC	BELIEF	unrelated	n/a	n/a	.09
17	KNOT	CORK	unrelated	n/a	n/a	.09
18	LAWN	GENDER	unrelated	n/a	n/a	.02
19	PAINT	HIGHWAY	unrelated	n/a	n/a	.02
20	ROCK	VIOLIN	unrelated	n/a	n/a	.03
21	TOOLS	TAXI	unrelated	n/a	n/a	.02
22	TRUNK	SPHERE	unrelated	n/a	n/a	.03
23	BEGGAR	BUM	related	.13	.0	.19
24	VICTIM	RAPE	related	.18	.06	.44
25	STAIN	SPOT	related	.19	.35	.16
26	BEES	HIVE	related	.17	.81	.95
27	DECEIT	LIE	related	.22	.0	.15
28	GERMS	BACTERIA	related	.18	.10	.47
29	HURRICANE	STORM	related	.23	.04	.81
30	MAGGOT	FLY	related	.16	.0	.14
31	RIOT	FIGHT	related	.16	.01	.33
32	BURIAL	FUNERAL	related	.21	.01	.41
33	WOUNDS	CUT	related	.18	.01	.17
34	COIN	PENNY	related	.15	.04	.41
35	ADULT	PARENT	related	.12	.02	.37
36	KETTLE	POT	related	.23	.03	.50
37	CUSTOM	TRADITION	related	.19	.04	.43
38	WHISTLE	SONG	related	.13	.0	.26
39	METAL	STEEL	related	.12	.31	.48
40	RADIATOR	HEAT	related	.20	.02	.35
41	FUR	ANIMAL	related	.15	.02	.31

42	SALUTE	FLAG	related	.23	.04	.39
43	RUNNER	ATHELETE	related	.07	.06	n/a
44	KEY	LOCK	related	.26	.41	.43

Experiment 3 Materials

Item	cue	target	Item Type	FSG	BSG	LSA
1	BANQUET	TABLE	Related	.02	0	.35
2	ARROW	SHARP	Related	.04	0	.26
3	BULLETIN	NEWS	Related	.11	0	.30
4	BICYCLE	TIRE	Related	.06	0	.41
5	CABIN	WOOD	Related	.03	0	.35
6	CHIEF	MAIN	Related	.03	0	.14
7	CLOWN	FUNNY	Related	.33	.03	.50
8	DANCER	SHOES	Related	.03	0	.22
9	EGGS	BACON	Related	.18	.52	.35
10	FORK	SPOON	Related	.44	.61	.48
11	GLOVE	LEATHER	Related	.01	0	.27
12	INSECT	FLY	Related	.09	.14	.26
13	LATCH	HOLD	Related	.01	0	.11
14	MAIL	STAMP	Related	.07	.24	.33
15	OFFICE	DESK	Related	.17	.01	.47
16	NECK	HEAD	Related	.33	.03	.74
17	RENT	HOUSE	Related	.05	0	.16
18	PEEL	APPLE	Related	.01	0	.46
19	PAIL	WATER	Related	.23	0	.34
20	SALAD	FRESH	Related	.02	0	.57
21	SAIL	BOAT	Related	.59	.13	.47
22	VOID	CHECK	Related	.10	0	.46
23	WALL	BRICK	Related	.06	.08	.67
24	VEST	JACKET	Related	.30	0	.50
25	BALLOON	LAKE	Unrelated	N/A	N/A	.01
26	FISH	KNEE	Unrelated	N/A	N/A	.06
27	BLANKET	STONE	Unrelated	N/A	N/A	.11
28	CRUTCH	GIRL	Unrelated	N/A	N/A	.22
29	BARREL	WHEEL	Unrelated	N/A	N/A	.20
30	REPORT	PROJECT	Unrelated	N/A	N/A	.24
31	HALL	RADIO	Unrelated	N/A	N/A	.07
32	WAGON	VILLAGE	Unrelated	N/A	N/A	.04
33	CITY	CROWD	Unrelated	N/A	N/A	.21
34	MEDICINE	WELL	Unrelated	N/A	N/A	.26
35	SALT	TOWER	Unrelated	N/A	N/A	.03
36	AIRPLANE	ENGINE	Unrelated	N/A	N/A	.22
37	CEILING	LIGHT	Unrelated	N/A	N/A	.21
38	BANNER	ELEVATOR	Unrelated	N/A	N/A	-.01
39	BUTTER	AVENUE	Unrelated	N/A	N/A	.03
40	CONTEXT	BASKET	Unrelated	N/A	N/A	.03

41	ITEM	COAST	Unrelated	N/A	N/A	.03
42	FABRIC	BELIEF	Unrelated	N/A	N/A	.09
43	KNOT	CORK	Unrelated	N/A	N/A	.09
44	LAWN	GENDER	Unrelated	N/A	N/A	.02
45	PAINT	HIGHWAY	Unrelated	N/A	N/A	.02
46	ROCK	VIOLIN	Unrelated	N/A	N/A	.03
47	TOOLS	TAXI	Unrelated	N/A	N/A	.02
48	TRUNK	SPHERE	Unrelated	N/A	N/A	.03

Experiment 4 Materials

Item	cue	target	Item Type	LSA
1	ACCIDENT	CLOTH	Unrelated	.06
2	PENCIL	DRINK	Unrelated	.07
3	ERROR	FRAME	Unrelated	.10
4	ENEMY	TRAIN	Unrelated	.06
5	EXPERT	DAUGHTER	Unrelated	.14
6	METAL	BLOCK	Unrelated	.09
7	WATCH	WORKER	Unrelated	.08
8	LIBRARY	MUSCLE	Unrelated	-.01
9	OCEAN	SHEET	Unrelated	.01
10	PALACE	ELECTION	Unrelated	.02
11	POCKET	UNCLE	Unrelated	.33
12	RADIO	JUDGE	Unrelated	.04
13	PAINT	LAWYER	Unrelated	.03
14	TRAFFIC	AWARD	Unrelated	.00
15	FOOTBALL	ALERT	Unrelated	.16
16	SCREEN	ARTERY	Unrelated	.01
17	BRUSH	CONCRETE	Unrelated	.10
18	SMOKE	SENIOR	Unrelated	.05
19	CONCERT	ENGINE	Unrelated	-.02
20	HEAVEN	BREATH	Unrelated	.24
21	SIGNAL	WINDOW	Unrelated	.09
22	SUGAR	BRANCH	Unrelated	.03
23	MISSILE	TONGUE	Unrelated	-.01
24	MURDER	SCALE	Unrelated	.07
25	LIQUOR	TISSUE	Unrelated	.00
26	CHAPTER	DINNER	Unrelated	.06
27	DRESS	BALLET	Unrelated	.24
28	BUDGET	CHIEF	Unrelated	.18
29	PROOF	MODEL	Unrelated	.13
30	RIFLE	THREAT	Unrelated	.13
31	SPEECH	PATENT	Unrelated	.00
32	SCORE	MARINE	Unrelated	.00
33	DRILL	MEDICINE	Unrelated	.09
34	WEAPON	TEETH	Unrelated	.08
35	PILOT	STEEL	Unrelated	.03
36	EVENT	GUEST	Unrelated	.20
37	BRIAN	CAPITAL	Unrelated	.01
38	ROUTE	MINOR	Unrelated	.20
39	SISTER	PLATFORM	Unrelated	.06
40	CHAIR	TARGET	Unrelated	.07
41	LUMBER	COMEDY	Unrelated	.02

42	MARRIAGE	DEBATE	Unrelated	.07
43	SHORE	MACHINE	Unrelated	.01
44	THROAT	BEDROOM	Unrelated	.19
45	CRIME	FINGER	Unrelated	.03
46	GLASS	DANCE	Unrelated	.04
47	PORCH	CAREER	Unrelated	.02
48	GRADE	DISEASE	Unrelated	.03

Experiment 5 Materials

Item	cue	target	Item Type	LSA
1	COUGAR	CAT	Related	0.18
2	CEILING	FLOOR	Related	0.72
3	COLLAR	DOG	Related	0.34
4	FORK	KNIFE	Related	0.34
5	PEAR	APPLE	Related	0.29
6	CRATER	MOON	Related	0.33
7	HORNET	BEE	Related	0.42
8	LUMBER	WOOD	Related	0.71
9	REFRIGERATOR	FOOD	Related	0.31
10	SHEET	PAPER	Related	0.4
11	WINGS	BIRD	Related	0.78
12	DISH	PLATE	Related	0.32
13	DITCH	HOLE	Related	0.31
14	CAMERA	PICTURE	Related	0.56
15	PAIL	WATER	Related	0.34
16	SKATE	ICE	Related	0.32
17	TRACTOR	TRAILER	Related	0.33
18	HAYSTACK	NEEDLE	Related	0.06
19	MINER	COAL	Related	0.42
20	RUG	CARPET	Related	0.56
21	COIN	PENNY	Related	0.41
22	ADULT	PARENT	Related	0.37
23	KETTLE	POT	Related	0.5
24	CUSTOM	TRADITION	Related	0.43
25	ACCIDENT	CLOTH	Unrelated	0.06
26	PENCIL	DRINK	Unrelated	0.07
27	ERROR	FRAME	Unrelated	0.1
28	ENEMY	TRAIN	Unrelated	0.06
29	EXPERT	DAUGHTER	Unrelated	0.14
30	METAL	BLOCK	Unrelated	0.09
31	WATCH	WORKER	Unrelated	0.08
32	LIBRARY	MUSCLE	Unrelated	-0.01
33	OCEAN	SHEET	Unrelated	0.01
34	PALACE	ELECTION	Unrelated	0.02
35	POCKET	UNCLE	Unrelated	0.33
36	RADIO	JUDGE	Unrelated	0.04
37	PAINT	LAWYER	Unrelated	0.03
38	TRAFFIC	AWARD	Unrelated	0
39	FOOTBALL	ALERT	Unrelated	0.16
40	SCREEN	ARTERY	Unrelated	0.01
41	BRUSH	CONCRETE	Unrelated	0.1
42	SMOKE	SENIOR	Unrelated	0.05

43	CONCERT	ENGINE	Unrelated	-0.02
44	HEAVEN	BREATH	Unrelated	0.24
45	SIGNAL	WINDOW	Unrelated	0.09
46	SUGAR	BRANCH	Unrelated	0.03
47	MISSILE	TONGUE	Unrelated	-0.01
48	MURDER	SCALE	Unrelated	0.07

Debriefing Questionnaire

1. How often did you use each of the following strategies while studying the word pairs?
Rate on a 10 point scale. 10=used on almost every item, 0=never used strategy
- a. Repeated the word pairs over and over to myself. _____
- b. Thought of a sentence that included the two words. _____
- c. Thought of an individual sentence for each word in the pair. The two sentences weren't necessarily related. _____
- d. Thought of an image that linked the words. Imagined something that included both words in the pair. _____
- e. Thought about how the two words were related but didn't think of a sentence or image to relate them. _____
- f. Read the words and tried to memorize, but didn't use any of the strategies listed.

- g. Other (please describe): _____
2. Please rate your overall effort on this task by circling a number. Your response **WILL NOT** affect your credit.
- 1 2 3 4 5 6 7 8 9 10
- I didn't try I tried very hard
3. Is there anything else that could have affected your performance on the task (e.g. sleep deprivation, hunger, feeling sick)? Please explain.
4. Please rate how suspicious you were that we were trying to "trick" you in some way during this experiment.
- 1 2 3 4 5 6 7 8 9 10
- It never crossed my mind I am completely convinced
I was being tricked in some way
5. What did you think this experiment was investigating? Did you change your mind about what you thought the experiment was about during the experiment? Please explain.