

## Two-Factor ANOVA Laboratory

### Condition A

First, study the lists of words seen below. I'll test your memory of them shortly.

Navy	web	thread	queen	butter
soldier	insect	pin	England	food
United States	bug	eye	crown	eat
rifle	fright	sewing	prince	sandwich
Air Force	fly	sharp	George	rye
draft	arachnid	point	dictator	jam
military	crawl	prick	palace	milk
Marines	tarantula	thimble	throne	flour
march	poison	haystack	chess	jelly
infantry	bite	thorn	rule	dough
captain	creepy	hurt	subjects	crust
war	animal	injection	monarch	slice
uniform	ugly	syringe	royal	wine
pilot	feelers	cloth	leader	loaf
combat	small	knitting	reign	toast

door	table	banner	blouse	shoe
glass	sit	American	sleeves	hand
pane	legs	symbol	pants	toe
shade	seat	stars	tie	kick
ledge	couch	anthem	button	sandals
sill	desk	stripes	shorts	soccer
house	recliner	pole	iron	yard
open	sofa	wave	polo	walk
curtain	wood	raised	collar	ankle
frame	cushion	national	vest	arm
view	swivel	checkered	pocket	boot
breeze	stool	emblem	jersey	inch
sash	sitting	sign	belt	sock
screen	rocking	freedom	linen	knee
shutter	bench	pendant	cuffs	mouth

## Two-Factor ANOVA Laboratory

### Condition B

First, study the lists of words seen below. I'll test your memory of them shortly.

sour	mad	fast	hot	hard
candy	fear	lethargic	snow	light
sugar	hate	stop	warm	pillow
bitter	rage	listless	winter	plush
good	temper	snail	ice	loud
taste	fury	cautious	wet	cotton
tooth	ire	delay	frigid	fur
nice	wrath	traffic	chilly	touch
honey	happy	turtle	heat	fluffy
soda	fight	hesitant	weather	feather
chocolate	hatred	speed	freeze	furry
heart	mean	quick	air	downy
cake	calm	sluggish	shiver	kitten
tart	emotion	wait	Arctic	skin
pie	enrage	molasses	frost	tender

low	white	smooth	nose	bed
clouds	dark	bumpy	breathe	rest
up	cat	road	sniff	awake
tall	charred	tough	aroma	tired
tower	night	sandpaper	hear	dream
jump	funeral	jagged	see	wake
above	color	ready	nostril	snooze
building	grief	coarse	whiff	blanket
noon	blue	uneven	scent	doze
cliff	death	riders	reek	slumber
sky	ink	rugged	stench	snore
over	bottom	sand	fragrance	nap
airplane	coal	boards	perfume	peace
dive	brown	ground	salts	yawn
elevate	gray	gravel	rose	drowsy

## Two-Factor ANOVA Laboratory

### Condition C

First, study the lists of words seen below. I'll test your memory of them shortly.

Air Force	butter	cushion	freedom	jersey
American	button	desk	fright	kick
animal	captain	dictator	George	knee
ankle	checkered	door	glass	knitting
anthem	chess	dough	hand	leader
arachnid	cloth	draft	haystack	ledge
arm	collar	eat	house	legs
banner	combat	emblem	hurt	linen
belt	couch	England	inch	loaf
bench	crawl	eye	infantry	march
bite	creepy	feelers	injection	Marines
blouse	crown	flour	insect	military
boot	crust	fly	iron	milk
breeze	cuffs	food	jam	monarch
bug	curtain	frame	jelly	mouth

national	prince	sewing	sofa	tie
Navy	queen	shade	soldier	toast
open	raised	sharp	stars	toe
palace	recliner	shoe	stool	ugly
pane	reign	shorts	stripes	uniform
pants	rifle	shutter	subjects	United States
pendant	rocking	sign	swivel	vest
pilot	royal	sill	symbol	view
pin	rule	sit	syringe	walk
pocket	rye	sitting	table	war
point	sandals	sleeves	tarantula	wave
poison	sandwich	slice	thimble	web
pole	sash	small	thorn	wine
polo	screen	soccer	thread	wood
prick	seat	sock	throne	yard

## Two-Factor ANOVA Laboratory

### Condition D

First, study the lists of words seen below. I'll test your memory of them shortly.

above	bumpy	dark	fluffy	hard
air	cake	death	fragrance	hate
airplane	calm	delay	freeze	hatred
Arctic	candy	dive	frigid	hear
aroma	cat	downy	frost	heart
awake	cautious	doze	funeral	heat
bed	charred	dream	fur	hesitant
bitter	chilly	drowsy	furry	honey
blanket	chocolate	elevate	fury	hot
blue	cliff	emotion	good	ice
boards	clouds	enrage	gravel	ink
bottom	coal	fast	gray	ire
breathe	coarse	fear	grief	jagged
brown	color	feather	ground	jump
building	cotton	fight	happy	kitten

lethargic	peace	sand	soda	tower
light	perfume	sandpaper	sour	traffic
listless	pie	scent	speed	turtle
loud	pillow	see	stench	uneven
low	plush	shiver	stop	up
mad	quick	skin	sugar	wait
mean	rage	sky	tall	wake
molasses	ready	sluggish	tart	warm
nap	reek	slumber	taste	weather
nice	rest	smooth	temper	wet
night	riders	snail	tender	whiff
noon	road	sniff	tired	white
nose	rose	snooze	tooth	winter
nostril	rugged	snore	touch	wrath
over	salts	snow	tough	yawn

## Test A/C

1	garbage	Old	New
2	waste	Old	New
3	king	Old	New
4	butter	Old	New
5	sewing	Old	New
6	can	Old	New
7	pane	Old	New
8	army	Old	New
9	thread	Old	New
10	refuse	Old	New
11	banner	Old	New
12	sewage	Old	New
13	bag	Old	New
14	crown	Old	New
15	bug	Old	New
16	junk	Old	New
17	soldier	Old	New
18	spider	Old	New
19	sleeves	Old	New
20	rubbish	Old	New
21	sit	Old	New
22	door	Old	New
23	sweep	Old	New
24	scraps	Old	New
25	table	Old	New
26	web	Old	New
27	pile	Old	New
28	stars	Old	New
29	dump	Old	New
30	window	Old	New
31	symbol	Old	New
32	landfill	Old	New
33	debris	Old	New
34	food	Old	New
35	litter	Old	New
36	queen	Old	New
37	needle	Old	New
38	elastic	Old	New
39	American	Old	New
40	bounce	Old	New

41	United States	Old	New
42	shade	Old	New
43	gloves	Old	New
44	bread	Old	New
45	tie	Old	New
46	tire	Old	New
47	pin	Old	New
48	ball	Old	New
49	sandwich	Old	New
50	hand	Old	New
51	eraser	Old	New
52	toe	Old	New
53	eat	Old	New
54	springy	Old	New
55	flag	Old	New
56	eye	Old	New
57	rifle	Old	New
58	shoe	Old	New
59	foam	Old	New
60	seat	Old	New
61	chair	Old	New
62	fright	Old	New
63	legs	Old	New
64	galoshes	Old	New
65	soles	Old	New
66	glass	Old	New
67	Navy	Old	New
68	shirt	Old	New
69	latex	Old	New
70	blouse	Old	New
71	glue	Old	New
72	England	Old	New
73	flexible	Old	New
74	kick	Old	New
75	resilient	Old	New
76	pants	Old	New
77	foot	Old	New
78	prince	Old	New
79	stretch	Old	New
80	insect	Old	New

## Test B/D

1	garbage	Old	New
2	waste	Old	New
3	sleep	Old	New
4	clouds	Old	New
5	rest	Old	New
6	can	Old	New
7	bumpy	Old	New
8	smell	Old	New
9	tall	Old	New
10	refuse	Old	New
11	mad	Old	New
12	sewage	Old	New
13	bag	Old	New
14	white	Old	New
15	hate	Old	New
16	junk	Old	New
17	candy	Old	New
18	rough	Old	New
19	charred	Old	New
20	rubbish	Old	New
21	hard	Old	New
22	dark	Old	New
23	sweep	Old	New
24	scraps	Old	New
25	winter	Old	New
26	aroma	Old	New
27	pile	Old	New
28	smooth	Old	New
29	dump	Old	New
30	black	Old	New
31	bed	Old	New
32	landfill	Old	New
33	debris	Old	New
34	tough	Old	New
35	litter	Old	New
36	awake	Old	New
37	high	Old	New
38	elastic	Old	New
39	tired	Old	New
40	bounce	Old	New

41	fear	Old	New
42	listless	Old	New
43	gloves	Old	New
44	soft	Old	New
45	stop	Old	New
46	tire	Old	New
47	road	Old	New
48	ball	Old	New
49	warm	Old	New
50	sour	Old	New
51	eraser	Old	New
52	low	Old	New
53	rage	Old	New
54	springy	Old	New
55	anger	Old	New
56	up	Old	New
57	lethargic	Old	New
58	sugar	Old	New
59	foam	Old	New
60	light	Old	New
61	sweet	Old	New
62	snow	Old	New
63	plush	Old	New
64	galoshes	Old	New
65	soles	Old	New
66	nose	Old	New
67	cat	Old	New
68	cold	Old	New
69	latex	Old	New
70	pillow	Old	New
71	glue	Old	New
72	breathe	Old	New
73	flexible	Old	New
74	sniff	Old	New
75	resilient	Old	New
76	hot	Old	New
77	slow	Old	New
78	fast	Old	New
79	stretch	Old	New
80	bitter	Old	New

## Code Sheet

1	New	41	Old
2	New	42	Old
3	Lure	43	New
4	Old	44	Lure
5	Old	45	Old
6	New	46	New
7	Old	47	Old
8	Lure	48	New
9	Old	49	Old
10	New	50	Old
11	Old	51	New
12	New	52	Old
13	New	53	Old
14	Old	54	New
15	Old	55	Lure
16	New	56	Old
17	Old	57	Old
18	Lure	58	Old
19	Old	59	New
20	New	60	Old
21	Old	61	Lure
22	Old	62	Old
23	New	63	Old
24	New	64	New
25	Old	65	New
26	Old	66	Old
27	New	67	Old
28	Old	68	Lure
29	New	69	New
30	Lure	70	Old
31	Old	71	New
32	New	72	Old
33	New	73	New
34	Old	74	Old
35	New	75	New
36	Old	76	Old
37	Lure	77	Lure
38	New	78	Old
39	Old	79	New
40	New	80	Old

### Score Sheet

Type of Item	Count old for these Test #'s	Compute proportion "old"
New (30)	1, 2, 6, 10, 12, 13, 16, 20, 23, 24, 27, 29, 32, 33, 35, 38, 40, 43, 46, 48, 51, 54, 59, 64, 65, 69, 71, 73, 75, 79	(old / 30)
Lure (10)	3, 8, 18, 30, 37, 44, 55, 61, 68, 77	(old / 10)
Old (40)	4, 5, 7, 9, 11, 14, 15, 17, 19, 21, 22, 25, 26, 28, 31, 34, 36, 39, 41, 42, 45, 47, 49, 50, 52, 53, 56, 57, 58, 60, 62, 63, 66, 67, 70, 72, 74, 76, 78, 80	(old / 40)

Concrete Lures	Abstract Lures	New items
army spider needle king window bread flag chair shirt foot	sleep smell rough black high soft anger sweet cold slow	words related to:  trash rubber

This lab looks at the false memory effect (DRM) in a 2x2 independent groups design. One factor is the concreteness of the lures. For some participants, the 10 lists suggest concrete words (e.g., army, spider, needle) and of the other participants the 10 lists suggest abstract words (e.g., sleep, smell, rough). The other factor is the method of presentation. For half of the participants, the lists are constructed so that the list of words is blocked according to the lure (e.g., Navy, soldier, United States, rifle). For the other half of the participants, the lists are constructed so that the list of words is in alphabetical order (e.g., Air Force, American, animal, ankle), so that the “lure” may be less obvious, though every participant in the Concrete group sees the same 150 words and each participant in the Abstract group sees the same 150 words.