

BAD

good had
rotten lad
harmful bat
worse bag
villain bud
severe band
trouble dad
awful bide
terrible bid
evil pad
corrupt ad
horrible bed
nasty ban
attitude tad
mood sad
punish fad

BALL

bounce doll
throw bile
basket bail
bowling balk
golf wall
play fall
tennis bald
soccer pall
round tall
catch bill
pitch bell
moth all
bat boil
kick bull
racket gall
hit hall

BEER

drunk leer
keg peer
pub tear
suds rear
liquor seer
booze gear
alcohol bill
Bud deer
bar boar
bottle beard
wine hear
mug fear
barrel year
drink bear
can veer
cooler ear

BLACK

white mack
gray block
tar blank
bruise lack
brown sack
oil smack
tuxedo track
dark pack
prejudice snack
minority rack
coffee flack
color slack
Africa bleak
coal back
soul hack
race plaque

BREAD

rye bled
loaf bride
crust braid
wheat read
butter broad
crumb bed
garlic thread
muffin tread
dough brad
toast pled
flour wed
Wonder breed
bun breadth
baked fled
biscuit head
roll dread

CAR

auto char
drive call
engine care
wreck are
garage card
motor carp
van cot
truck core
crash par
accident scar
trunk cart
tire far
mechanic bar
vehicle carve
tow cough
gas tar

CHAIR

sit pair
couch share
rocking char
swivel air
cushion scare
seat check
recliner lair
wicker hair
Lazyboy their
table tear
stool cherry
furniture cheer
sofa stair
rocker fair
desk care
bench chore

COLD

chill code
hot called
warm fold
sneeze sold
shiver culled
Arctic chord
ice cream scold
chilly bold
freezer hold
frigid coiled
heat colt
ice old
frost polled
freeze gold
winter told
snow coal

DOG

hound log
 puppy dodge
 bite dug
 mutt hog
 pet bog
 beware doff
 bone daub
 tail cog
 cat dock
 animal dawn
 paw fog
 poodle dig
 flea doll
 bark frog
 Lassie jog
 vet dot

FACE

mouth fake
 expression vase
 nose fuss
 eyes faith
 frown lace
 wrinkle fail
 makeup fain
 cheek ace
 head case
 mask fate
 moustache fame
 beard race
 chin base
 lips faze
 shave fade
 smile pace

FAT

thin fate
 obese that
 large sat
 weight foot
 calorie fact
 slim cat
 pudgy feat
 diet fit
 slender bat
 wide pat
 cheek fan
 skinny fast
 lean hat
 plump fought
 chubby flat
 huge at

FLAG

American slag
 banner flab
 pledge brag
 wave wag
 allegiance flak
 country sag
 stars nag
 USA snag
 pole bag
 stripes crag
 freedom flat
 nation lag
 pennant gag
 salute flog
 symbol drag
 checkered rag

GOD

lord pod
 holy gone
 heaven goad
 bible odd
 bless tod
 angel good
 sin sod
 faith wad
 church guide
 Jesus nod
 religion gob
 pray gad
 devil gall
 deity rod
 Christ cod
 worship got

GLASS

bottle class
 lens grass
 shatter blass
 prism lass
 mirror glaze
 hour sass
 crystal bass
 jar glance
 pane mass
 fragile brass
 mug crass
 looking gloss
 shard glad
 cup plass
 break pass
 window gas

GUN

pistol gown
 shot bun
 holster nun
 rifle gush
 bullet one
 hunt ton
 military gut
 powder sun
 shoot run
 trigger goon
 murder gain
 aim gum
 bang pun
 cannon fun
 revolver done
 weapon gone

HAND

glove land
 finger sand
 shake hound
 palm panned
 thumb stand
 wave hanged
 grip fanned
 foot canned
 fist band
 mitten grand
 wash honed
 hold hind
 knuckle tanned
 wrist and
 arm had
 clap brand

HARD

rigid bard
 difficult hark
 easy harm
 work lard
 cement charred
 concrete scarred
 stiff hoard
 tough hired
 rock sparred
 simple heart
 complex harp
 firm starred
 solid tarred
 soft yard
 rough card
 coarse herd

HATE

dislike rate
 love wait
 hostility hail
 anger hot
 detest fate
 resent haste
 fear height
 jealousy date
 envy gate
 despise hay
 abhor bait
 war late
 enemy hat
 loathe hit
 disgust heat
 like ate

KILL

slay skill
 suicide cull
 violence kid
 hunt hill
 shoot fill
 stab chill
 attack sill
 homicide kilt
 destroy call
 shot coil
 smother till
 poison pill
 assassin kick
 murder kit
 deadly keel
 choke ill

LAW

rights raw
 attorney paw
 enforce chew
 criminal lawn
 lawyer lock
 court claw
 government flaw
 regulation log
 legal lay
 officer saw
 rules gnaw
 justice low
 legislation lot
 amendment awe
 police slaw
 order loss

MAIL

stamp meal
 deliver nail
 receive mate
 bills mile
 letters hail
 send make
 fax mall
 express sail
 post veil
 zip mill
 address mole
 envelope maid
 package may
 UPS ail
 telegram gale
 junk mull

MAN

woman can
 guy moon
 sir main
 boss fan
 super tan
 lady pan
 person mean
 fellow map
 mister van
 bachelor ran
 uncle mat
 con mad
 macho ban
 handsome mine
 gentleman moan
 male an

PEN

ink pan
 paper then
 marker hen
 eraser ken
 pencil pawn
 writing pain
 notebook fen
 Bic peg
 point when
 mark ben
 write pine
 scribble pun
 pal yen
 quill ten
 fountain pet
 pad pent

RAIN

umbrella train
 drench main
 weather ran
 hail wren
 cloud pain
 dew rave
 pour raise
 storm brain
 thunder bane
 wind raid
 puddle rate
 acid range
 mist wane
 lightning lane
 sunshine vain
 flood gain

RIGHTSICKSLEEPSLOW

correct	tight	healthy	sock	bed	sweep	quick	mow
perfect	rye	ill	sink	rest	steep	fast	crow
equal	rife	flu	lick	yawn	sleet	snail	slope
accurate	night	nausea	sake	pillow	slop	hesitant	slaw
fair	bright	cancer	soak	snooze	heap	brisk	owe
justify	rile	cough	kick	awake	weep	swift	snow
left	ripe	virus	six	nap	seep	molasses	blow
turn	bite	disease	suck	dream	sleek	lazy	throw
angle	rat	medicine	silk	tired	slope	cautious	row
answer	rot	doctor	sack	pajamas	bleep	lethargic	flow
mistake	white	fever	stick	snore	slip	speed	slew
wrong	rice	hospital	thick	doze	slap	hurry	hoe
truth	ride	germ	seek	drowsy	leap	sluggish	show
ethics	light	clinic	slick	coma	cheap	turtle	sew
direction	writhe	vomit	tick	wake	sleeve	rapid	glow
proper	rate	well	sip	slumber	sloop	delay	low

SMELL

odor bell
cologne swell
sniff spell
stench tell
scent hell
nose smile
deodorant yell
aroma jell
skunk small
fragrance fell
dirty knell
sense sell
perfume shell
stink well
foul dell
whiff smelt

SMOKE

fire poke
nicotine joke
cigar cloak
pot smirk
pipe stroke
chimney oak
fumes smote
cigarette spoke
ashtray choke
Marlboro bloke
marijuana woke
smog smack
habit stoke
tobacco yoke
puff smock
inhale soak

SNAKE

viper brake
lizard quake
slither snack
serpent sake
deadly ache
hiss snuck
reptile shake
cobra flake
fangs lake
poison make
venom sneak
slimy stake
bite rake
python snail
worm take
rattle wake

SWEET

honey beat
bitter heat
nice skeet
ice cream street
sugar swat
tart wheat
taste feet
fudge meet
candy sleet
syrup seat
kind sweep
chocolate fleet
dessert sheet
sour sweat
frosting treat
salty tweet

TEST

TOP

TRASH

WET

quiz	zest	bottom	mop	garbage	gash	slippery	vet
final	pest	peak	stop	waste	slash	damp	watt
study	tossed	hill	tap	dumpster	track	paint	wheat
evaluate	west	over	tup	junk	brash	splash	pet
experiment	chest	roof	chop	refuse	flash	dry	west
essay	tent	summit	bop	Hefty	ash	humid	bet
stress	toast	pinnacle	tock	litter	stash	water	wed
screen	crest	zenith	cop	sewage	trap	dripping	well
score	fest	apex	hop	scraps	lash	soak	net
exam	best	spin	tape	dump	rash	moist	let
fail	text	above	taupe	rubbish	mash	saturate	welt
lab	taste	ceiling	pop	landfill	thrash	sponge	wit
tube	vest	tip	type	can	bash	towel	wait
pass	hest	lid	tot	pile	dash	slick	get
grade	rest	mountain	sop	bag	crash	soggy	yet
analysis	guest	best	whop	recycle	clash	douse	wear

Note: For each critical item, semantic associates are presented in the left column, and phonological associates are presented in the right column. Hybrid lists are created by interleaving semantic associates from odd-numbered serial positions with phonological associates from even-numbered serial positions, or vice-versa, for each critical item, as shown in Table 3.