

How to Memorize Cards, GUIDs, Hashes, Public Keys, and More — Revision 8

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1 Change log

- Revision 3
 - includes some sound-alikes and peg candidates from John D. Cook, plus a hint from him that science fiction is a worthwhile fount of sound-alikes
 - begins promoting the first row in each table to “preferred sound alike”
- Revision 4
 - includes remarks about passwords and mental hash functions from John D. Cook
- Revision 5
 - include Tarot images
- Revision 6
 - automate production of tables with Clojure program
- Revision 7
 - Non-Alphabetic ASCII

2 Introduction

I memorize numbers in any radix (base) by hallucinating poems, stories, or mental cartoon movies via the Mnemonic Major System:

https://en.wikipedia.org/wiki/Mnemonic_major_system

My hallucinations come with synaesthesia: smells, heat, texture, colors, brightness, etc. I use only imagination, no drugs. Many memory practitioners do not use synaesthesia, but they help me.

Krill calls the hallucinations “phantasmagorias” and the inputs for them “phantasmagorishables,” which itself encodes the digits 8210 3746 95.

<https://folk.ntnu.no/krill/pseudonumerology.htm>

My methods are based on tables of

pegs permanent, immutable hallucinogens in one-to-one correspondence to numbers. For instance, the number 68 is a chef, and I smell the kitchen and hear the sounds of boiling and sizzling. Whenever I see a chef or think of one, I instantly think of the number 68. That’s 1-to-1 correspondence.

sound-alikes fluid, mutable list of hallucinogenic words that are similar in their consonant sounds to the pegs and in many-to-one correspondence to the numbers. 68’s “chef” sounds like “chief,” “sheaf,” “Java,” “chaff,” amongst others. While 68 always means “chef,” first, a chef might not fit well into an ongoing hallucination. For instance, if we’re memorizing 276872, the pegs are NECK, CHEF, and CAN. That sequence does not invoke an obvious story, so we start looking for sound-alikes. How about INCA CHIEF COIN? Just picture a coin with an Inca chief embossed on it, and we’re done. It took a little time to devise INCA CHIEF COIN from NECK CHEF CAN, but the other direction is instantaneous. It’s many-to-one because there are many words that map to each number.

See the last section, Section 13 of this document, after the Appendices, for the complete maps of numbers to pegs and sound-alikes.

For radices beyond decimal, I choose a mapping from alphabetic glyphs to ASCII because I already have the mapping memorized for instant, bidirectional recall (Section 9). In appendices, I show some alternative mappings for people who don’t have ASCII memorized.

3 The System of Sound-Alikes

The pegs for the decimal digits, with some mnemonic hints, are

digit	peg	mnemonic	sound-alike rules
0	saw	circular saw, sawed log; round like “0”	s, z
1	tea	giant Disneyland teacup; “t” looks like “1”	d, th, dh (them)
2	Noah	... and the Ark; “n” has 2 legs (2 = ng for Krill only, nk is always 27)	ng
3	me	... in the mirror tying a bow tie; “m” has 3 legs	
4	ray	this one is hard to remember; just brute-force it	
5	law	5 fingers as the cop holds up his hand	
6	jaw	“6” looks like Lurch’s lantern jaw	sh, ch, zh (pleasure)
7	key	“7” looks like an Allen key (7 = ng for Furst and me, nk is always 27)	g, ng
8	fee	“8” looks like a dollar sign	f, v
9	pea	The Princess and the Pea: 9 mattresses	p, b

Memorize this table, or one like it, by whatever means, by brute force if necessary. The rest of the system relies on it. If you don’t like these specific pegs, pick some others out of the rows for 0 through 9 in Section 13. Pick your own peg for each digit, make your own table, memorize it, and stick with it forever. NEVER, EVER CHANGE ANYTHING IN IT. I did that once more than 50 years ago, and I continue to regret it. This table must become an internal, effortless vocabulary like your native language.

Make up pegs and sound-alikes for longer numbers by combining consonant sounds. For example, here is the peg and sound-alikes for 32:

32	MAN	mane	mine	minnow	moon	woman
	amen	ammonia	human	hymen	main	mana
	mania	manna	many	mean	mien	moan
	money	omen	yeoman			

Notes on such tables:

- the peg is in all-caps and in first position
- the first line contains preferred sound-alikes in preference order
- and the remaining sound-alikes appear in alphabetical order

“MAN” is the peg: it is *equal* to 32 in your mind. I hallucinate Superman flying out of the phone booth or arriving to Save the Day. The Sound-Alikes help you create phantasmagorias (aka hallucinations) from long strings of numbers by devising a story. With practice, you can get fast. Eran Katz, who teaches this method professionally, often opens his lectures with a stunt wherein he memorizes hundreds of digits as quickly as the audience calls them out and his assistant writes them down.

We go to three digits in this document. That means that every number from 00 through 099 and 0 through 1000 has a peg and a list of sound-alikes. For instance, here is the list for 352:

352	MELON	Himalayans	hemline	semolina	milliner	homeland
	malign	melancholy	millennium	million		

For words with three internal consonants, leading zeros and all sounds after the third consonant do not count. “Semolina” encodes 352 despite the leading “s.” “Semolina” does not encode 035 because the “n” in “...ina” is a third internal consonant. For 035, indeed, we have the following.

035	SAWMILL	smile	smell	small	simile	sea-mile
	assimilate	seamless	seemly	similar		

“Assimilate” is an apparent exception to the rule. At speed, I would probably read it as 351. Let’s see what our dictionary has for 351.

351	malt	malady	milady	mallet	melodrama	melody
	meld	melt	mild	military	millet	mold
	muleteer	multiple	mulatto	multitude	emulate	hamlet
	humility	homiletics	omelet	umlaut	smelt	smolder
	simulate	simultaneous				

Yup, “assimilate” is ambiguous. TODO: fix this.

“Millenium” encodes 352 despite the trailing “...ium.”

352	MELON	Himalayans	hemline	semolina	milliner	homeland
	malign	melancholy	millennium	million		

Vowels and the weak consonants “h,” “w,” “wh,” “y,” and so on, do not count. Thus, “Himalayans” is 352 because the first non-weak consonant is “m” for 3.

My basic 2-digit peg list appears below, extended from 99 to 127 for ASCII and with nine extra pegs for court cards (Section 12.8). I know this table by heart. My Dad and many memory experts know pegs for 3 digits by heart and “compute” sound-alikes on-the-fly. I’m not that good, yet.

00	sauce	10	toes	20	nose	30	mass
01	sod	11	tot	21	net	31	mat
02	sun	12	tan	22	nun	32	man
03	seam	13	tam	23	name	33	mama
04	soar	14	tar	24	Nero	34	mare
05	sail	15	tail	25	nail	35	mail
06	sash	16	tissue	26	niche	36	match
07	sack	17	tack	27	neck	37	mike
08	safe	18	taffy	28	navy	38	muff
09	sap	19	tap	29	nap	39	map
40	race	50	lace	60	chess	70	case
41	rat	51	lot	61	jet	71	cat
42	rain	52	lane	62	chain	72	can
43	ram	53	lime	63	chime	73	cam
44	rear	54	lair	64	chair	74	car
45	rail	55	lily	65	jail	75	coal
46	rash	56	lash	66	judge	76	cage
47	rack	57	lake	67	chalk	77	cake
48	reef	58	leaf	68	chef	78	cuff
49	rope	59	lap	69	chip	79	cap
80	face	90	base	100	thesis	110	tights
81	fat	91	bat	101	toast	111	teetotaler
82	fan	92	bean	102	dozen	112	titan
83	fame	93	beam	103	twosome	113	totem
84	fare	94	bar	104	dowser	114	Tatar
85	fall	95	ball	105	diesel	115	title
86	fish	96	badge	106	wood-sage	116	deathwatch
87	fig	97	back	107	tusk	117	hot dog
88	fife	98	beef	108	adhesive	118	auto-da-fe
89	fob	99	pipe	109	teaspoon	119	teddy bear
120	dance	911	potato	411	rat-a-tat	711	cadet
121	donut	912	baton	412	rattan	712	katana
122	Athenian	913	podium	413	radium	713	catamaran
123	tenement						
124	tenor		spades		hearts		clubs
125	toenail		court		court		court
126	tension		cards		cards		cards
127	tank						

4 Credit-Card Numbers

Consider the following, fake VISA number from

<https://www.getcreditcardnumbers.com>

4716 5752 8659 3825

From the peg list, we get

4716	rack tissue
5752	lake lane
8659	fish lap
3825	muff rail

There isn't an obvious narrative, here, but we get better by starting with "fish" (picturesque and smelly) and working some sound-alikes backwards:

4716	rack DASH	Take a fishing rod off the RACK and DASH
5752	lake lane	down to the LAKE via our favorite LANE.
8659	fish LEAP	The FISH are LEAPing today, so we
3825	MOVE REEL	MOVE the REEL slowly (on the fishing rod).

You can recall this the credit-card number weeks after devising the story, without refreshing your memory in between. Devising it took less than a minute. I instantly memorized it while devising it without extra effort because I know the entire 2-digit peg table by heart.

5 Hexadecimal: GUID & SHA-1

For mapping *hexits* (hexadecimal digits), extend the table with the ASCII codes for A-F.

hex	NATO	ASCII	hallucination
A	ALPHA	jail	65 the alpha-male lion is in jail
B	BAKER	judge	66 passing judgment on the lion
C	CHARLIE	chalk	67 hopscotch on the sidewalk
D	DELTA	chef	68 day job of a PhD-thesis student
E	ECHO	chip	69 a poker chip in a policeman's (LAW:5) hand
F	FOXTROT	case	70 filled with a dozen pink roses

and their sound-alikes:

65	JAIL	chill	Chile	chili	jelly	jewel
A	jolly	jowl	July	shall	shell	shawl
	shallow	shoal	shill	shyly	agile	usual
66	JUDGE	cha-cha	chichi	choochoo	chowchow	jaygee
B	Jewish	josh	juju	shush	shoji	hashish
	wishy-washy					
67	CHALK	check	cheek	choke	chug	chick
C	chuck	chic	jack	jock	jockey	Django
	jingo	joke	jug	shag	shako	shack
	shake	shock	shuck	sheik	aging	itching
	etching	washing	wishing	watching		
68	CHEF	chafe	chaff	chief	chive	Chevy
D	Java	jayvee	Jehovah	jiffy	jive	shave
	sheaf	shove	achieve	wash-off		
69	CHIP	chap	chapeau	cheap	chop	chubby
E	g.p.	gyp	jab	jib	jibe	jeep
	job	Job	shabby	shape	sheep	ship
	shop	hush-up				
70	CASE	cause	causeway	cozy	cuss	chaos
F	gas	gauze	gaze	goose	guess	guise
	guys	kiss	quasi	ax	accuse	acquiesce
	eggs	hex	hoax	ox	wax	haggis

5.1 Example GUID:

Hex is only a little harder than decimal. Consider this random GUID generated by Java:

5D00E7AA-C15C-44A5-93FA-A4DE6750B28A

Start with the pegs:

5D00	E7AA	law chef sauce chip key jail jail
C15C		chalk tail chalk
44A5		rear jail law
93FA		beam case jail
A4DE	675	jail ray chef chip chuckle
0B28	A	saw judge Navy jail

Note:

- Encode 6750 as “chuckle saw,” not as 67 50 “chalk lace.” “Chalk” decodes as C, not as 67.

In the credit-card example, we worked backwards from the picturesque peg “fish” 86. Here we work backwards from the seductive sound-alike “naive” 28. The seductive emotion will make it easier to memorize. Hallucinate a “hell-chef sauce,” a recipe for a naive victim.

5D00	E7AA	HELL-chef SAUCE: CHOP, HACK, and CHILL the JELLY.
C15C		SHAKE with TALLOW, CHECK
44A5		the RARE CHILI OIL.
93FA		“BE-MY HAGGIS, JILL!”
A4DE	675	CHILL for an HOUR, SHAVE, CHOP, CHUCKLE.
0B28	A	“ASSAY, JUDGE!” NAIVE JILL.

5.2 Example SHA-1 Hash

From <https://onlinehashtools.com>, consider the following, 160-bit hash: For git, it practically suffices to remember the first 8 hexits. Let's do them all as a workout:

A638	1B63	jail camel tea judge chime
D532	69BA	chef lemon jaw pea judge jail
418E	5FB1	artful chip law case judge tea
BD50	3950	judge chef wholesome pillows
860D	D679	fishes chef chef checkup

Notes

- "Chime" for 63 is ok in hex and R36, but not ok in R64, where it decodes as "/".
- Don't encode 69 as "chip," rather as "jaw pea," because "chip" decodes as E.
- An alternative to "wholesome pillows" for 50 3950 is "lace map lace," but it's clumsy.

Let's bribe a judge and put him to sleep with hash (puns help the memory), then summon middle-Eastern heavenly dreams.

A638	1B63	with SHAWL and CAMEL, TEA for the JUDGE, JIM.
D532	69BA	SHAVE a LEMON WEDGE, PAY the JUDGE to CHILL.
418E	5FB1	an ARTFUL SHAPE of this LAW CASE, SHUSH THEE!
BD50	3950	HASHISH ACHIEVES ELYSIUM BLESSINGS
860D	D679	FETCHES the CHIEF, JEHOVAH for JACOB!

6 Radix 36

Radix-36 is more difficult to find “in the wild” than is either hex or Radix-64. I most often see it in randomly generated file and directory names because some file systems are not case-sensitive. R36 is also found sometimes in URLs for encoding queries or other data. HTTP is supposed to be case-sensitive, but some sites don’t adhere to the standard. Radix-64 is overkill in such circumstances and sucks up alternatives.

For encoding *rixits* in R36 (or biscuits in base-36?), I use ASCII pegs for the capital letters beyond hex. Find their sound-alikes in Section 13. R36 is case-insensitive, by design, so we only need one set of pegs. For Radix-64, we need both upper and lower case. The stars in the table below mark pegs for the lower case. They help for remembering the ASCII pair — upper and lower case — but they’re only pertinent for R64 (Section 7).

G	GOLF	71	cat	on the golf cart with my twosome*
H	HOTEL	72	can	ashtray outside in the smoking area (smell)
I	INDIA	73	cam	diesel* Rolls-Royce in a junkyard in India
J	JULIET	74	car	Juliet walks a wood-sage* to his NASCAR* ride
K	KILO	75	coal	Alice(11) gives coal to a tusked* troll
L	LIMA	76	cage	containing tanned(12) beach-goers
M	MIKE	77	cake	an orca (Mayim:13) flips a cake on its nose
N	NOVEMBER	78	cuff	a snake (Nakhash:14) no arms, cuffs on shirt
O	OSCAR	79	cap	a teetotaler wearing a Carrie-Nation cap
P	PAPA	80	face	Dad cries (tissue:16) at Liz Taylor’s face
Q	QUEBEC	81	fat	did Pierre Trudeau get fat?
R	ROMEO	82	fan	Romeo hands a fan to a Tatar* beauty
S	SIERRA	83	fame	on stage at my book-signing, title* “Sierra”
T	TANGO	84	fare	a death-watch* soldier gets on the bus
U	UNIFORM	85	fall	a cadet(club jack) falls into a net(21)
V	VICTOR	86	fish	the Christian symbol, nun(22), auto-da-fe*
W	WHISKEY	87	fig	a Few Figs from Thistles; reading it with a dram
X	X-RAY	88	fife	Nero(24) plays the fife, dances* while Rome burns
Y	YANKEE	89	fob	a watch-fob hanging from a nail(25) on a US map
Z	ZULU	90	base	an Athenian* ball-player at bat on home base

6.1 Example Unix Time

I found an example here:

<https://medium.com/analytics-vidhya/base-36-why-how-its-important-a7b084b02548kg4cebk9>

Pegs, first, converting to upper-case:

KG4	coal cat ray
CEB	chalk chip judge
K9	coal pea

Do some forensics on a dead pet.

KG4	KILL the CAT with a RAY.
CEB	CHECK for a CHIP, lest we be JUDGED.
K9	COOL! it's UP.

6.2 Example from Spack

Spack (<https://spack.io/>) is a dependency solver for software build systems. It produces directory names in R36 that won't (statistically) collide with SHA-1 hashes and work fine on case-insensitive file systems. Here's an example

```
[+] /home/blahblah/yackyack/spack_packages/scripts/tmp-spack2/spack/opt/spack/linux-ubuntu18.04-haswell/gcc-7.5.0/gdbm-1.19-rdt674nck5k5hbawjaywb4mv4r72osnq
```

Pegs first, except cheat on pronounceable subsequences or others that appeal to your personal memory!

RDT6	74NC	REDDIT jaw key ray cuff chalk
K5K5	HBAW	coal law coal law, can judge jail fig
JAYW	B4MV	JAY fig, BEFORE MOVIE (judge ray cake fish)
4R72	OSNQ	ray fan key Noah, face fame cuff fat.

How about a tale of canceling on social media?

RDT6	74NC	REDDIT is AHUSH, a COY WAR, GOOFY and SHOCKING.
K5K5	HBAW	KILL ILL, UGLY WILL; AGONY SHUSH the SHILL, the FAKE
JAYW	B4MV	JAY-bird FAKE, BEFORE MOVIE
4R72	OSNQ	OUR FAN GUY NOAH, with VOICE FAIR, GIVE FIGHT!

Notes

- "Car" for 74 is not ok because it decodes as "J". Peg it as "key ray," then try sound-alikes.
- "Fish" is "V" in R36, not 86. If we had 86, peg it as "fee jaw," then try sound-alikes.
- 72 can't be "can," because that's "H" in R36. Peg it as "key Noah" then try sound-alikes.

7 Radix 64

For encoding rixits in R64, add the lower-case letters plus special cases for “+”, 62, and “/”, 63. Stars in the table below mark pegs for the upper-case ASCII codes. They help for remembering the ASCII pair together.

	NATO		ASCII	hallucination; ASCII pair refs marked with *
a	alpha	97	back	the jailer* has her back turned to the lion
b	baker	98	beef	the judge* eats a beef dinner in court
c	charlie	99	pipe	smoking while chalking* the hopscotch grid
d	delta	100	thesis	the chef* hasn't finished the thesis yet
e	echo	101	toast	the cop(5) has toast between his fingers
f	foxtrot	102	dozen	a dozen pink (Vered:6) roses in a case*
g	golf	103	twosome	on the golf cart with the cat*
h	hotel	104	dowser	done smoking outside (ash-can*), dowsing inside
i	india	105	diesel	holding a camshaft* from diesel Rolls-Royce
j	juliet	106	wood-sage	Juliet escorts a druid to its NASCAR ride
k	kilo	107	tusk	Alice(11) gives coal* to a tusked troll
l	lima	108	adhesive	dangle a fly-paper into the cage*
m	mike	109	teaspoon	drip icing onto the cake* in the water (Mayim:13)
n	november	110	tights	the snake (Nakhash:14) has no legs, wears tights
o	oscar	111	teetotaler	wearing the Carrie Nation cap*
p	papa	112	Titan	protecting Liz Taylor
q	quebec	113	totem	a fat* Pierre Trudeau kneels before the totem
r	romeo	114	Tatar	Romeo hands a fan* to a Tatar beauty
s	sierra	115	title	on stage receiving fame* for my book titled Sierra
t	tango	116	death-watch	a soldier gets on the bus paying fare* and dancing
u	uniform	117	hotdog	a cadet falls* into a net(21) holding a hotdog
v	victor	118	auto-da-fe	a Christian* nun(22) overlooks the ritual
w	whiskey	119	teddy bear	while reading a Few Figs* from Thistles
x	x-ray	120	dance	Nero(24) plays fife*, looks through dancers' clothes
7	yankee	121	donut	hangs on the nail(25) next to the fob*
z	zulu	122	Athenian	on home base* at bat
+		62	chain	
/		63	chime	

7.1 Example Public Key

Don't bother encoding AAAA, which precede and follow a canonical prefix of 16 rixits for (supposedly) a machine-specific part of the key. With the remaining 44 rixits and 8 for the two AAAAs, we get the required 68 rixits. We have 60 rixits to encode.

```
ssh-ed25519
AAAA C3Nz aC1l ZDI1 NTE5 AAAA
IFi4 CpLS hSK/ uUux BxM3 6WwK
C6RD 1/Qn tXQg BV3m pUZq
```

Pegs first, then try sound-alikes:

C3Nz	aC1l	chalk me cuff Athenian, back chalk tea tea
ZDI1	NTE5	base chef cam tea, cuff fare chip law
IFi4	CpLS	cam case diesel ray, chalk titan cage fame
hSK/	uUux	dowser fame coal chime, hotdog fall hotdog dance
BxM3	6WwK	judge dance cake me, jaw fig teddy-bear coal
C6RD	1/Qn	chalk jaw fan chef, tea chime fat tights
tXQg	BV3m	deathwatch fife fat twosome, judge fish me teaspoon
pUZq		titan fall base totem

A tale of overeating:

C3Nz	aC1l	CHALK picture, ME adjusting CUFFS, looking down my ATHENIAN nose. Turn my BACK, another CHALK picture; my TIE is TOO tight.
ZDI1	NTE5	On BASE, now. A CHEF flips burgers with a CAMSHAFT and brews TEA. COFFEE, FAIR-traded! SHOPPED WELL.
IFi4	CpLS	The CAMSHAFT stirs EGGS, a DAZZLING omelet, ROE and JACK. I'll be a TWO-TON and KEDGE to bed: HEAVE-HIM!
hSK/	uUux	DESSERTS? WHIFF-EM! CALL a dentist, JIM! my TOOTHACHE JIM! My TOOTHACHE FEELS like a TOOTHACHE, DUNCE!
BxM3	6WwK	CHOW-CHOW! DUNCE CAKE for ME. JAW a FIG and a TOOTHPICK, COOL!
C6RD	1/Qn	CHECK my JAW OFTEN, FAWN CHEF. TO SHAME FOOD TADS.
tXQg	BV3m	DEATH-WISH? VIVA my FAT TWOSOME. SHUSH, VETCH, MY TEASPIT.
pUZq		I'm a TWO-TON, I'll FALL BESIDE the DAYTIME.

8 Passwords

Don't make passwords easy for bots to guess. Random, long passwords are best, but hard to remember, even with our systems. They're even more difficult to associate uniquely with a web site.

Modern web sites don't store your passwords in the clear. Virtually all, nowadays, hash your password with a one-way hash (and usually some salt and a nonce challenge). That means you expose nothing by re-using part of a password, so long as it's different from site-to-site.

Pick a difficult prefix, but memorable to you. Mix in a special character and a numeral because many sites insist on such. Start with something picturesque:

"An Octopus has eight legs with suckers."

Now, partially encode and obfuscate it; this is your personal salt prefix:

```
2Octopu$Ha$8Leg$With0740
```

Finally, append the site name, perhaps obfuscated:

```
2Octopu$Ha$8Leg$With0740EBAY 2Octopu$Ha$8Leg$With0740APPLE 2Octopu$Ha$8Leg$With0740OVERLE
```

Anyone who knows your personal salt prefix and your algorithm will probably break you. But bots will just see a random hash, different for each site you visit. They will have no idea that you are even using an algorithm

9 Daily Practice: ASCII, Cards, NATO, Hebrew, Dates

Table 1 exploits the coincidence that there are 52 glyphs in the ASCII Latin alphabet, 52 cards in a standard pack, and 52 weeks of the year. There are only 22 Hebrew letters, so the last four rows of each 26 are empty in the Hebrew column.

Table 1 is in groups of 13 corresponding to the suits of playing cards. Each group also contains dates in a fortuitous quarterly month-week pattern of 5-4-4: 5 weeks in Jan, 4 in Feb, 4 in Mar, etc. The first days of the months are in the easy pattern 155, 274, 263, 153. You may memorize this as a honeymoon tale of TAILLIGHTS, NIAGRA, UNASHAMED, HOTELMAN. Table 2 focuses on some hallucinations specifically for dates.

These are for non-leap years only, so not great for computing day-of-the-week. I have another method for that (debugged Furst) in Section 12.9.

My daily practice includes another $156 == 3 \times 52 = 2 \times 78$ three columns of hallucinations for the 156 faces of a standard Tarot pack, obverse and reverse. See Section 11.

I go down table 1 in my mind when I need to fall asleep. I usually get four or five rows before drifting off, so next time through, I start up where I left off. Sometimes, I recite it backwards just to make sure the end of the table doesn't get soft from lack of repetition.

Table 1: ASCII, Playing cards, NATO, Hebrew, Dates

	NATO	ASCII	HEBREW	TRANSLATION	SUIT + PIP	DATE	DOY
A	ALPHA	jail	ARYEH	lion	SA	JAN 01	1
B	BAKER	judge	BAYIT	booth	S2	JAN 08	8
C	CHARLIE	chalk	GAMAL	camel	S3	JAN 15	15
D	DELTA	chef	DALET	door	S4	JAN 22	22
E	ECHO	chip	HAR	hill	S5	JAN 29	29
F	FOXTROT	case	VERED	pink	S6	FEB 05	36
G	GOLF	cat	ZAHAV	gold	S7	FEB 12	43
H	HOTEL	can	CHAMOR	mule	S8	FEB 19	50
I	INDIA	cam	TAYAS	pilot	S9	FEB 26	57
J	JULIET	car	YAD	hand	ST	MAR 05	64
K	KILO	coal	KISEH	throne	SJ	MAR 12	71
L	LIMA	cage	LECHEM	bread	SQ	MAR 19	78
M	MIKE	cake	MAYIM	water	SK	MAR 26	85
N	NOVEMBER	cuff	NACHASH	snake	HA	APR 02	92
O	OSCAR	cap	SEFER	book	H2	APR 09	99
P	PAPA	face	AYIN	eye	H3	APR 16	106
Q	QUEBEC	fat	PANIM	face	H4	APR 23	113
R	ROMEO	fan	TZIPPOR	sparrow	H5	APR 30	120
S	SIERRA	fame	QUF	monkey	H6	MAY 07	127
T	TANGO	fare	ROSH	head	H7	MAY 14	134
U	UNIFORM	fall	SHAD	skeleton	H8	MAY 21	141
V	VICTOR	fish	TANIN	crocodile	H9	MAY 28	148
W	WHISKEY	fig			HT	JUN 04	155
X	X-RAY	fife			HJ	JUN 11	162
Y	YANKEE	fob			HQ	JUN 18	169
Z	ZULU	base			HK	JUN 25	176

Table 2: ASCII, Playing cards, NATO, Hebrew, Dates (cont.)

	NATO	ASCII	HEBREW	TRANSLATION	SUIT + PIP	DATE	DOY
a	alpha	back	aryeh	lion	CA	JUL 02	183
b	baker	beef	bayit	booth	C2	JUL 09	190
c	charlie	pipe	gamal	camel	C3	JUL 16	197
d	delta	thesis	dalet	door	C4	JUL 23	204
e	echo	toast	har	hill	C5	JUL 30	211
f	foxtrot	dozen	vered	pink	C6	AUG 06	218
g	golf	twosome	zahav	gold	C7	AUG 13	225
h	hotel	dowser	chamor	mule	C8	AUG 20	232
i	india	diesel	tayas	pilot	C9	AUG 27	239
j	juliet	wood-sage	yad	hand	CT	SEP 03	246
k	kilo	tusk	kiseh	throne	CJ	SEP 10	253
l	lima	adhesive	lechem	bread	CQ	SEP 17	260
m	mike	teaspoon	mayim	water	CK	SEP 24	267
n	november	tights	nachash	snake	DA	OCT 01	274
o	oscar	teetotaler	sefer	book	D2	OCT 08	281
p	papa	titan	ayin	eye	D3	OCT 15	288
q	quebec	totem	panim	face	D4	OCT 22	295
r	romeo	tatar	tzippor	sparrow	D5	OCT 29	302
s	sierra	title	quf	monkey	D6	NOV 05	309
t	tango	death-watch	rosh	head	D7	NOV 12	316
u	uniform	hot-dog	shad	skeleton	D8	NOV 19	323
v	victor	auto-da-fe	tanin	crocodile	D9	NOV 26	330
w	whiskey	teddy-bear			DT	DEC 03	337
x	x-ray	dance			DJ	DEC 10	344
y	yankee	doughnut			DQ	DEC 17	351
z	zulu	Athenian			DK	DEC 24	348

Table 3: Date Hallucinations

	NATO	ASCII HALLU	SUIT + PIP	DATE	DATE HALLU	DOY	DOY HALLU
A	ALPHA	jail	SA	JAN 01	New tie	1	tie
B	BAKER	judge	S2	JAN 08	New view	8	view
C	CHARLIE	chalk	S3	JAN 15	New deal	15	deal
D	DELTA	chef	S4	JAN 22	New onion	22	onion
E	ECHO	chip	S5	JAN 29	New nib	29	nib
F	FOXTROT	case	S6	FEB 05	Love lie	36	image
G	GOLF	cat	S7	FEB 12	Love tune	43	room
H	HOTEL	can	S8	FEB 19	Love top	50	loose
I	INDIA	cam	S9	FEB 26	Love nudge	57	leak
J	JULIET	car	ST	MAR 05	Irish lie	64	cheer
K	KILO	coal	SJ	MAR 12	Irish tune	71	cad
L	LIMA	cage	SQ	MAR 19	Irish top	78	cuff
M	MIKE	cake	SK	MAR 26	Irish nudge	85	evil
N	NOVEMBER	cuff	HA	APR 02	Easter wine	92	bun
O	OSCAR	cap	H2	APR 09	Easter pie	99	pub
P	PAPA	face	H3	APR 16	Easter dosh	106	dosage
Q	QUEBEC	fat	H4	APR 23	Easter gnome	113	tedium
R	ROMEO	fan	H5	APR 30	Easter Mass	120	dunce
S	SIERRA	fame	H6	MAY 07	National ache	127	tank
T	TANGO	fare	H7	MAY 14	National tear	134	timer
U	UNIFORM	fall	H8	MAY 21	National note	141	tread
V	VICTOR	fish	H9	MAY 28	National navy	148	adrift
W	WHISKEY	fig	HT	JUN 04	Altar rue	155	taillight
X	X-RAY	fife	HJ	JUN 11	Altar teat	162	tuition
Y	YANKEE	fob	HQ	JUN 18	Altar dive	169	dodgeball
Z	ZULU	base	HK	JUN 25	Altar kneel	176	education

Table 4: Date Hallucinations (cont.)

	NATO	ASCII HALLU	SUIT + PIP	DATE	DATE HALLU	DOY	DOY HALLU
a	alpha	back	CA	JUL 02	Summer wine	183	deaf-mute
b	baker	beef	C2	JUL 09	Summer pie	190	tapas
c	charlie	pipe	C3	JUL 16	Summer dosh	197	top-K
d	delta	thesis	C4	JUL 23	Summer gnome	204	answer
e	echo	toast	C5	JUL 30	Summer Mass	211	noted
f	foxtrot	dozen	C6	AUG 06	Moon witch	218	not-if
g	golf	twosome	C7	AUG 13	Moon time	225	union hall
h	hotel	dowser	C8	AUG 20	Moon noose	232	honeymoon
i	india	diesel	C9	AUG 27	Moon Nike	239	number
j	juliet	wood-sage	CT	SEP 03	Job wham	246	enrage
k	kilo	tusk	CJ	SEP 10	Job dice	253	annulment
l	lima	adhesive	CQ	SEP 17	Job tyke	260	nachos
m	mike	teaspoon	CK	SEP 24	Job near	267	unshucked
n	november	tights	DA	OCT 01	Travel tie	274	nacre
o	oscar	teetotaler	D2	OCT 08	Travel view	281	unfit
p	papa	titan	D3	OCT 15	Travel deal	288	navy wife
q	quebec	totem	D4	OCT 22	Travel onion	295	napalm
r	romeo	tatar	D5	OCT 29	travel nib	302	muezzin
s	sierra	title	D6	NOV 05	Restaurant lie	309	mess-up
t	tango	death-watch	D7	NOV 12	Restaurant tune	316	midshipman
u	uniform	hot-dog	D8	NOV 19	Restaurant top	323	minimum
v	victor	auto-da-fe	D9	NOV 26	Restaurant nudge	330	memos
w	whiskey	teddy-bear	DT	DEC 03	Church wham	337	mimic
x	x-ray	dance	DJ	DEC 10	Church dice	344	mirror
y	yankee	doughnut	DQ	DEC 17	Church tyke	351	malt
z	zulu	Athenian	DK	DEC 24	Church near	348	Morpheus

10 Non-Alphabetic Printable ASCII Codes

Space		moon	32	on the moon, a mummy
Bang	!	mummy	33	with a handgun
Dirk	"	hammer	34	a dirk in the other hand
Hash	#	mule	35	leading a mule with a feed-bag
Cash	\$	mage	36	charges money to cast spells
Grapes	%	hammock	37	drinks wine and takes a nap
Snowman	&	muff	38	sleeps until winter time
Tick	'	amoeba	39	a tick hides in the muff cloth
Frown	(	horse	40	I lose my bet
Smile	)	heart	41	I get a love letter
Star	*	rune	42	a magical run in the zodiac
Plus	+	rime	43	a frozen crossroads in Fargo
Tadpole	,	rower	44	water runoff from the rime
Flag	-	rally	45	row up to the rally flag
Stop	.	ridge	46	the rally stops on the ridge
Press	/	ring	47	press a ring on winner's finger
EFES	0	reef	48	Easy if you know the Hebrew
...	..	...	..	numbers
TEYSHA	9	rope	49	
Snake-Eyes	:	wolf	58	in the casino, wolf slot machine
Hybrid	;	lab	59	wolf is a Labrador dog
Bra	<	chaise	60	underwear strewn on furniture
Gym	=	judo	61	dress up in your judo gi
Ket	>	join	62	join two ends of a bra - ket
Hook	?	jamb	63	snagged on the bathroom door jamb
Snail	@	shower	64	snail in your shower
Box	[	bait	91	put it in bait box in left hand
Slope	\	pine	92	the box is pine, slope it
Top	]	palm	93	press on the lid with your palm
Hat	^	bar	94	take it to the bar in fishing hat
Score	_	highball	95	piano player in bar drinks a highball
Blip	`	pitch	96	sings on pitch, pings on radar
Embrace	{	dynamite	123	you're hiding dynamite in your coat
Pipe	\vert	tenor	124	singer has great pipes
Bracelet	}	tunnel	125	you lost your detonator bracelet
Worm	~	dungeon	126	you slink into dungeon like a worm

11 Tarot

Tarot cards have vivid imagery and powerful, emotional associated words. Such features are great for memory.

There are 78 Tarot cards in a standard Rider-Waite pack. That's not divisible by 52, but if we consider the reverse images (upside-down cards) as distinct to the obverse, and most cartomancers do, then we have 156 image-word combinations, and that is divisible by 52. Thus, we get an additional three columns of picture words to add to the daily practice (9), where we associate them with standard playing cards, the NATO alphabet, the ASCII codes, weeks of the year, day of the year, and Hebrew words.

The Tarot suits are wands, clubs, swords, and pentacles. These are obviously related to the suits of a standard pack, but different enough that we'll just keep those two sets of suits distinct in our minds. There are 14 cards in each suit, but only 22 trumps, aka majors. Let's take the Knights out of each suit and append them to the majors so that the minor suits have 13 cards each, including three court cards — page (like "jack"), queen, and king.

NUM PEG	TAROT MAJOR OBV	INCLUDING KNIGHTS OBVERSE	TAROT MINOR REV	ALL REVERSE	TAROT MINOR OBV	ALL OBVERSE
TEA	MAG	willpower	wA	boredom	WA	inspiration
NOAH	PST	intuition	w2	hesitation	W2	independence
ME	EMS	motherhood	w3	obstacles	W3	expansion
RAY	EMP	fatherhood	w4	transience	W4	home
LAW	HEI	tradition	w5	dodge	W5	competition
JAW	LOV	union	w6	ignored	W6	recognition
KEY	CHA	drive	w7	give up	W7	protect
FEE	STR	strength	w8	panic	W8	rapid
PEA	HRM	contemplation	w9	exhaustion	W9	grit
TOES	WHL	luck	wT	micromanage	WT	responsibility
TOT	JST	causation	wJ	procrastination	WJ	excitement
TAN	HNG	perspective	wQ	selfishness	WQ	courage
TAM	DTH	cycle	wK	overbearing	WK	overcome
TAR	TMP	patience	cA	blocked	CA	spirituality
TAIL	DVL	addiction	c2	tension	C2	partnership
TISSUE	TWR	destruction	c3	gossip	C3	friendship
TACK	STA	faith	c4	acceptance	C4	apathy
TAFFY	LUN	misdirection	c5	peace	C5	disappointment
TAP	SUN	joy	c6	leaving home	C6	return home
NOSE	JDG	reckoning	c7	diversion	C7	daydreaming
NET	WLD	completion	c8	avoidance	C8	disillusioned
NUN	FOO	innocence	c9	smugness	C9	luxury
NAME	KNW	fearless	cT	broken family	CT	fulfillment
NERO	KNC	idealist	cJ	immaturity	CJ	dreamer
NAIL	KNS	defender	cQ	self-sacrifice	CQ	compassion
NICHE	KNP	efficient	cK	cold	CK	emot control

NUM PEG	TAROT MAJOR REV	INCLUDING KNIGHTS REVERSE	TAROT MINOR REV	ALL REVERSE	TAROT MINOR	ALL OBVERSE
NECK	mag	illusions	sA	chaos	SA	breakthrough
NAVY	pst	repression	s2	hobson's	S2	indecision
NAP	ems	barrenness	s3	forgiveness	S3	heartbreak
MASS	emp	tyranny	s4	restless	S4	rest
MAT	hei	rebellion	s5	resentment	S5	conan
MAN	lov	one-sided	s6	resistance	S6	transition
MAMA	cha	directionless	s7	conscience	S7	cunning
MARE	str	self-doubt	s8	freedom	S8	trapped
MAIL	hrm	isolation	s9	anxiety	S9	hope
MATCH	whl	loss	sT	nadir	ST	betrayal
MIKE	jst	dishonesty	sJ	deception	SJ	curiosity
MUFF	hng	stalling	sQ	critical	SQ	clarity
MAP	dth	stagnation	sK	cruel	SK	discipline
RACE	tmp	excess	pA	bad investment	PA	venture
RAT	dvl	recovery	p2	overwhelmed	P2	priorities
RAIN	twr	aversion	p3	group conflict	P3	teamwork
RAM	sta	insecurity	p4	stingy	P4	frugality
REAR	lun	confusion	p5	receive charity	P5	poverty
RAIL	sun	sadness	p6	strings attached	P6	charity
RASH	jdg	doubt	p7	wasted work	P7	perseverance
RACK	wld	emptiness	p8	no motivation	P8	high standards
REEF	foo	naivety	p9	spendthrift	P9	fruits of labor
ROPE	knw	reckless	pT	fleeting success	PT	legacy
LACE	knc	moody	pJ	uncommitted	PJ	diligence
LOT	kns	feckless	pQ	jealous	PQ	abundance
LANE	knp	workaholic	pK	indulgence	PK	prosperity

12 APPENDICES

12.1 Pegs and Hallucinations

I blogged out the basics of my peg method here:

<https://rebcabin.wordpress.com/2010/11/21/memory-pegs/>

12.2 Sound-Alikes

Finding a sound-alike is “computing” or “calculating” a picture word. For example, the peg for 37 is “mike.” Picture a microphone in your hand and feel the electrical tingling. Adding synaesthesia or emotion to pegs helps my memory. It may not help other people. Do what is best for you!

To calculate some nearby picture words, I get

mica Glittering stone; feel grit on your fingers.

mug A big cold beer.

muck Smell the barnyard.

Mecca Picture the kaaba and the pilgrims circulating.

hammock Take a snooze.

12.3 Building and Revising Chains

Take time building hallucinations so that ideas flow. It’s bad to have a break part-way-through, causing a pause or failure in recall. You must be *fast* and *accurate*. A break or even a soft link in a chain is cause for starting over and building a new chain.

12.4 One Peg Set, Forever

Choose pegs that work for you, then **NEVER CHANGE THEM**. Recall must be instantaneous. Whenever you see or think of a number, you must recall the peg without effort.

I regret changing a few pegs once. I did it for teaching purposes because my originals got dated. For example, 3 for “May” became “me” because no one today knows what a May-pole is. Every time I see 3, however, I picture a May-pole instead of myself in a mirror. I learned May-pole first (from Furst and from my Dad). The switch slows me down even though I made the switch long, long ago.

DON’T CHANGE PEGS AFTER LOCKING THEM IN

12.5 Alternatives for Hex

12.5.1 Hex Method 1

One way to encode hex is to map A-F to 010-015. Permanent pegs are in all caps.

010	SAWDUST	seduce	sideways	stays	South-Sea	assets
A	assiduous	citizen	cities	hostess		
011	STATUE	state	steady	sedate	steed	stout
B	studio	sit-down	astute	estate	hesitate	iced-tea
	wasted					
012	STAIN	sedan	Satan	sadden	sodden	sudden
C	stand	satin	standard	stench	stint	stein
	stone	stun	stunt	sweeten	sit-in	Sweden
	Estonia	astound	hesitant	pseudonym		
013	STEAM	sodium	stamp	sediment	stem	stomach
D	stampede	stamina	stump	esteem	estimate	wisdom
014	SATYR	Saturn	Saturday	setter	satire	star
E	stare	steer	stir	store	story	storm
	straw	stream	stroll	sterling	strike	strip
	struggle	suitor	swatter	sweater	cedar	cider
	astronaut	astir	astray	austere	Austria	Easter
	history	hysteria	oyster	ouster	stair	
015	SADDLE	settle	cedilla	stale	stall	steal
F	steel	still	stool	style	sadly	hostile

Here is the GUID, again.

5D00E7AA-C15C-44A5-93FA-A4DE6750B28A

How about a pseudo-poem about wildlife:

5D00E	OWL of WISDOM and SASSY STARING eyes.
7AA	HAWK, look SIDEWAYS left and SIDEWAYS right.
C15C44	STAND TALL, SUDDEN HARRIER
A5	and ASSIDUOUS OWL!
93FA	PUMA, STEALthy CITIZEN,
DE6750	STAMP! STRIKE! SHAKE, LASSIE!
B28A	Don't HESITATE. ENOUGH, CITIZEN!

12.5.2 Hex Method 2

Another technique for hex is to exclusively use the single-word pegs TOES-TISSUE [10..15] for the hexits [A..F]. For decimal digits that spell in 10-15, use two 1-digit pegs. For example, don't spell 15 as TALL; that's for F exclusively. Spell it as TOE EEL or some such.

Here we go, pegs, first:

5D00E7AA	law tam sauce tar key toes toes
C15C	tan tea tail tan
44A5	rear toes law
93FA	beam tail toes
A4DE6750B28A	toes ray tam tar chalk lace tot reef toes

Ignore 'ing' in the following, wherein we are assaulted by a Scottish traffic cop:

5D00E7AA	A Scottish policeman (LAW) wearing a TAM o'Shanter gives me SASS. Pulls me over on the TARMac and demands my KEY. I TOSS it on his TOES.
C15C	"DONE IT WELL, laddie!"
44A5 93FA A4	THEN ROARING, "'TIS LOW, you BUM! 'TILL he EATS TAZER!'"
DE6750B28A	"DAMN TAR! SHAKE LESS! TIGHT ENOUGH on my TOES!"

Method 1 produces more compact hallucinations and extends to higher radices.

12.5.3 SHA-1 by Hex Method 1

a638 1b63 d532 69ba 418e
5fb1 bd50 3950 860d d679

Using Method 1, ignore common grammatical suffixes like “-ing” and “-ful;” prepositions like “to” and “of;” pronouns and relative adjective, words like “this,” and “that;” forms of the verb “to be,” and other obvious connector words like “the” and “a.”

Let’s take a look at a statue in the artist’s studio:

A638	SIDEWAYS CHAMFER?
1B6E	the TOE of this STATUE is a SHAM
D532	SODIUM is not ALUMINUM!
69BA	its SHAPE in the STUDIO is SIDEWAYS
418E	ARTFUL HISTORY
5FB1	LAY a STOOL by the STATUE’S TOE
BD50	STATUE is STAMPED “ALICE”
3950	MAYBE ALICE VOUCHES for the STAMP
D678	STAMP of a JACOBIAN?

12.6 Alternatives for Radix-64

12.6.1 Methods 1 and 2, Again

A method-1 (12.5.1) encoding of rixits, reserving 010 through 064, follows:

0	8	010	016	024	032	040	048	056	063
v	v	v	v	v	v	v	v	v	v
0	1	2	3	4	5	6	7	8	9
A	B	C	D	E	F	G	H	I	J
K	L	M	N	O	P	Q	R	S	T
U	V	W	X	Y	Z	a	b	c	d
e	f	g	h	i	j	k	l	m	n
o	p	q	r	s	t	u	v	w	x
y	z	+	/						

1. Advantages of this encoding:

- There are so many picturesque words in English that begin with S that we have a deep well to draw from.
- The code for a letter is its numerical value in R64: A = 10, O = 24, etc.
 - Disadvantage of this advantage: we're working on memory, not on evaluation, so maybe this feature isn't so interesting.

2. Problems with this encoding:

(a) Off-By-One Mental Arithmetic

Notice that 24 is "O," but you may remember that "O" is also the 15-th capital glyph of the alphabet. Adding 10 for the first ten digits of the encoding, $15 + A = 15 + 10 = 25$, not 24. This is an opportunity for error at speed. But we can deal with it.

To encode O, remembered as the 15-th letter of the alphabet, first subtract 1 to correct the off-by-one error, getting 14. Then add 10 to account for the leading ten digits 0..9 of the encoding, getting 24. Prepend the leading $s = 0$ for the radix to get 024, say "sunrise."

Encode: subtract 1, add 10, i.e., add 9.

Encode: enhance nine.

$O \rightarrow 15 \rightarrow 24 \rightarrow 024 \rightarrow \text{sunrise}.$

To decode sunrise = 024, remove the leading $s = 0$ to get 24. Subtract 10 to get 14. Add 1 to get 15, the 15-th capital letter.

Decode: add 1, subtract 10, i.e., subtract 9.

Decode: deduct nine.

$\text{sunrise} \rightarrow 024 \rightarrow 24 \rightarrow 15 \rightarrow O.$

For small letters, add and subtract 26.

$o \rightarrow 15 \rightarrow 41 \rightarrow 50 \rightarrow 050 \rightarrow \text{solstice}.$

$\text{solstice} \rightarrow 050 \rightarrow 50 \rightarrow 24 \rightarrow 15 \text{ in lower case}.$

It's a lot of mental arithmetic, but that's fun, too. Balance the fun factor against the need for recall speed and accuracy.

(b) ASCII Popups

If you've memorized ASCII, you already have pegs for A-Z and a-z. They will pop up at speed. You can either force them away; use them as with Method 2 above, accepting the trade-off risk of collisions and ambiguity, or go with ASCII in my first method.

12.6.2 Structure in Public Keys

Generating another public key on my machine, notice that the first 6 quads, 24 Rixits, 64 bits each, 1536 bits, are the same in the two keys:

```
ssh-ed25519
AAAA C3Nz aC1l ZDI1 NTE5 AAAA <~~~ for the machine?
IKWf n2B6 AjfK MNwX +Ekt d7mx
nhwi GALP JfEO oEwk 2X/u
```

By induction, assume without confirmation or authority that the first 24 Rixits are for the machine and $11 \times 4 = 44$ Rixits for the rest. That's 2816 bits.

The total is 4352 bits, or 68 Rixits, consistent with this article:

<https://medium.com/risan/upgrade-your-ssh-key-to-ed25519-c6e8d60d3c54>

That's it for cross-checking; on to memorization.

Let's tell a tale of poisoning an indiscreet lover.

12.6.3 The Supposed Machine Prefix.

Don't bother with the leading and trailing AAAA, assuming they're always present (TODO: check that!), leaving C3Nz aC1l ZDI1 NTE5:

C3Nz	SATIN HEM in a CINEMAtic SASH-WEIGHT
aC1l	SMOOCH - STAINED, a HOT OATH
ZDI1	a SMALL STEAMing from the STOVE, with TEA brewing
NTE5	CYANAMIDE for a SNOBBish SUITOR's ALE

12.6.4 The Unique Parts

Now in groups of 3 or 4 quads:

IFi4	STUFF the STILL for his ZERO-HOUR HURRAH
CpLS	SWEETEN the SALT with a SCENT of SNUFF
hSK/	a SERUM SINFUL and SINISTER for his SASHIMI
uUux	a SOLUTION SEMISWEET, no SLUDGE in this SLOP
BxMe	SATED, he SLIPS into ASSONANT WHIMsies
6WwK	HUSHed SOMNOLENCE, SOULFUL SNOOZing
C6RD	SATIN HUSH, SNUG STOMACH
lQn/	DIE, SWITCHMAN! SNATCH CERBERUS
tXQg	SLOWLY SEMIMOBILE, SNITCH ! SURRENDER!
BV3m	SEDATED, to the CEMETERY HOME, SERF!
pUZq	SLIDE into OSMOSIS, ASSIMILATE SLAIN!

12.6.5 Old Old Method

I blogged out a more trivial method, similar to method 2 for GUIDs some time ago:

<https://rebcabin.wordpress.com/2011/03/06/memorizing-in-base-64/>

This method maps the rixits directly to the pegs. The mental arithmetic is the same as above: computing a peg number from characters A..Z and a..z by adding 9 and-or-26. We just lose the leading S, so we lose some richness to the vocabulary.

12.6.6 Radix-64 Method 3

Another method, which I have not tried, is to map the alphabetic letters to their S-enhanced letter numbers, as in

A	01
B	02
...	...
Z	026
a	027
b	028
...	...
z	052

The decimal digits go to their regular pegs, 0..9. This is a variation of the old-old-method (12.6.5).

12.7 Memorizing Dates

For most kids, history class is torture because of the need to memorize dates. But that's a snap with the peg system. I still remember from 11-th grade that

RAY TAN CHAT

was the beginning day of the Civil War, because you burned me with a RAY gun and that ended the peace talks. April 12, 1861.

12.8 Memorizing a Shuffled Card Pack

I blogged this out in December, 2010, starting here:

<https://rebcabin.wordpress.com/2010/12/08/take-the-diamonds/>

Here is a scrape of the relevant blog posts.

12.8.1 Take the Diamonds

Do you smell machine oil the instant you see the Diamond Queen from a pack of cards? How about cigarette smoke when you see the Diamond Six, or baby powder when you see the Diamond Ace? Read on . . .

Take the entire suit of Diamonds out of a pack of cards and lay them out in order, from Ace to King, in front of you on a table. Notice that the word "diamond" begins with a D, and recall that the consonant sound D stands for the number 1 – or for the digit "1" in combination with other digits, as we have been using it so far. Think of the suit, diamonds, as the tens digit in combination with

the plain digit of each card. Then the diamond Ace will be 11 – 1 for the tens digit from “diamonds” and 1 for the Ace itself, since it’s the first card in the suit. The Ace through the Nine come out with no problem at all and they hook up immediately with our memorized, permanent pegs. As you go through the list below, really take some time to stare at the card and visualize the mental picture right on the face of the card. If the deck is one you can write on or draw on, draw a little cartoon or write the picture word on the face of the card. You’ll be using these cards to help you lock in the pegs:

<i>Card</i>	<i>Num</i>	<i>Peg</i>	<i>Mental Picture</i>
D A	11	tot	Alice from Alice in Wonderland. Smell baby-powder in the air.
D 2	12	tan	Someone tanning herself holding a reflective tray under her chin. Smell tanning oil.
D 3	13	tam	A tam-o-shanter tartan cap with red pom-pom on the head of a Scottish warrior in full kilts. Smell heather.
D 4	14	tar	A sizzling hot stretch of deserted highway, so hot the tar is sticky. Smell the tar, too.
D 5	15	tail	The orange-and-black striped tail of an enormous tiger. Imagine a zoo smell.
D 6	16	tissue	Someone wiping tears from her eyes after remembering an emotional event. Smell cigarette smoke and think of the song “Smoke Gets in Your Eyes.”
D 7	17	tack	A huge thumbtack or map-pin holding something on a big cork board. Smell fresh ink and paper.
D 8	18	taffy	A big blob of hot, sweet-smelling pink and green taffy candy, stuck to your fingers getting all over the card.
D 9	19	tap	A beer tap spilling beer all over the card, splashing on your clothes and making a smelly mess.

Notice I’ve added smell to the associations, and even a song. We can really take this idea far and involve taste and touch over all the pegs, and we may do that in the future – it will be an interesting exercise. This is one of the things that Eran Katz suggests to do in his books (highly recommended), and since smell works very well for my personal memory, I’m adding it to my permanent inventory and inviting you along for this addition.

We have only four cards to go. The diamond 10 is pretty easy – I’m just going to pick the peg “toes” and picture the woman painting her toenails all different colors. And the smell? Toenail Polish! Easy.

And for the last three, let’s promote the 1 to the hundreds digit and sneak in some three-digit pegs (from the third layer – a preview). Notice we may have some extra consonant sounds on the ends of the three-digit pegs. They’re throw-aways, because the system doesn’t go to four or more digits at a time. 1,110 permanent pegs is quite enough!

<i>Card</i>	<i>Num</i>	<i>Peg</i>	<i>Mental Picture</i>
D J	111	teetotaler	Picture a prissy little man with ill-fitting clothes, a crooked bow tie, thick eyeglasses and a pocket protector pontificating on the virtues of total abstinence from alcohol. Smell Lysol (too much cleaning)
D Q	112	titan	Picture an enormous robot with rivets all over its shell. Smell machine oil and steel.
D K	113	totem	Picture a Native-American totem pole with effigies of bears, salmon, and a huge, winged eagle on top. Smell a campfire and the wood of the totem pole.

That's it. Take your suit of diamonds along with you, pull it out and practice the visualization and imaginary smelling exercise whenever you find yourself having to kill time. Just a few times over this and you won't need the cards any more. You will INSTANTLY smell and see taffy when you think of the Diamond-8. The Diamond Queen will INSTANTLY bring to mind the smell of machine oil and steel. And vice versa, and through the entire suit.

12.8.2 Shuffle the Diamonds

... and go through the 13 cards, in order, forming a linked sequence of vivid mental pictures. Here's what I came up with yesterday

Alice in Wonderland (tot = 11 = DAce) is wiping a tears from her eyes with a tissue (16 = D6). She is standing by a sizzling hot highway and her feet are sinking into the tar (14 = D4). Across the highway, a six-foot tall beer tap (19 = D9) is gushing beer onto the tarmac. The beer boils on contact, releasing a strong beer smell, and runs gently downhill into a grid of huge, multicolored tacks (17 = D7) pushed into the tarmac. These tacks are also piercing and holding down a tiger's tail (15 = D5), and the tiger is roaring in pain and licking a huge lump of pink-and-green alcoholic taffy (18 = D8) by the other side of the road from Alice to soothe his pain. In front of the tiger, a teetotaler (111 = DJ), specially summoned from AA for the situation, is wagging his finger at the tiger and delivering a stern warning about the evils of alcoholic taffy. The other hand of the teetotaler is exposed to the hot sun and is getting quite a tan (12 = D2). With that overtanning hand, he is holding the right hand of a steel robot titan (112 = Q2) who is wagging his head, clicking and beeping, emitting the odor of machine oil, and, with his other hand, painting his toenails (toes = 10 = D10) and also the toenails of the totem (113 = DK) standing right next to him (smell the toenail polish). The top of the totem is obscured by a huge tam-o-shanter (13 = D3), which is baking in the hot sun and emitting a strong smell of roasting wool

Now, I came up with this phantasmagoria yesterday morning in less than one minute, I did not think about it all day, the day was very, very busy with other activities, I went out for a couple of drinks after work, slept through the night, and didn't think of this for a whole 24 hours until just now. I remembered it almost perfectly (I forgot the tacks, and all that means is that I didn't form the mental picture vividly enough – I had the tiger's tail threaded around the tacks, but I recommended to you to imagine the pins pushed THROUGH the tail, adding the roaring and pain to the phantasmagoria). If I had been more careful, I would have remembered it perfectly.

Think about this: by exploiting the visual imagination and dragging in all the other senses – feeling the heat, smelling the smells, hearing the sounds, I was able to remember 24 hours later, after a minute of looking, a shuffled suit of cards (and, if I had been more careful, I would have remembered it perfectly!). When I am in practice, I can memorize an entire shuffled deck in 2 minutes, while you deal them out (I'll teach you the other suits later, while we go through the second layer of the memory system). When I am out of practice, 4 minutes is plenty. Even better, I can memorize 39 of the cards and then tell you the remaining 13 cards just by running down the suits in my mind and naming the cards that aren't in my phantasmagoria. I can even do it tomorrow from yesterday's shuffle.

This is a great party trick. The pros can do this really fast. The athletes in the world memory championships (http://en.wikipedia.org/wiki/World_Memory_Championships) can do it in less than 30 seconds, and they can memorize the order of 8 shuffled decks in 15 minutes.

Try this. You will amaze yourself. Then, think of practical applications.

12.8.3 The 40s and Hearts

Back with the 10's we learned pegs to memorize a shuffling of the diamond suit, in any order. This time, we'll learn pegs for the 40's and for the hearts suit. The reason to associate hearts with the 40's is that the first important consonant in 'hearts' is 'r,' a digit 4, which we promote to the number 40 for the application of memorizing cards. Here are my permanent pegs for the 40's. As always, feel free to tailor this set to your own memory style

Num	Sound	Peg	Description	Others
40	RS	race	A NASCAR race; colorful cars going around; oil, gasoline, smoke, loud engines	rose rice horse
41	RT	rat	huge, greasy rat scurrying through garbage in an alley; garbage smell, long teeth	road word radio
42	RN	rain	driving rainstorm; soaked clothes; dark street trying to hail a taxi; no visibility	huron horn roan
43	RM	ram	giant ram with huge, curled horns; it's saddled and you're riding it; leather & wool	arm worm room
44	RR	rear	distinctive rear end of Corvette automobile; driving it with the top down	rare roar horror
45	RL	rail	brass rail at a wood-paneled bar; can't reach it with your feet; beer and darts	whorl whirl reel
46	RJ	rash	painful, red rash on your forearm	ridge Raj rush
47	RK	rack	rack of antlers on caribou head mounted over the fireplace	wreck rag rug
48	RF	reef	coral reef; brightly colored tropical fish; SCUBA diving gear; rubber, seawater	roof rave wharf
49	RP	rope	heavy burlap or hemp rope in a coil or attached to the thing-to-remember	rib robe harp

Those pegs cover the playing cards Heart Ace (41) through Heart Ten (40). We need three more for the face cards

Heart Jack: 411, rat-a-tat-tat; picture a machine gun; you're carrying it and shooting it at things

Heart Queen: 412, rattan; picture white wicker furniture

Heart King: 413, radium; picture the item-to-remember pulsing with the (imaginary) green glow of radioactive radium.

Pick the diamonds and the hearts out of a pack of cards, shuffle them, and prepare to memorize the order. Take your time: don't rush it. Go for accuracy. The speed will come naturally with practice. Here's an example of a run I did just now, building this story in my mind in real time. If you follow along and build the miniature movie in your mind, you will no trouble recalling the order of the cards. Take special effort to chain the pegs one to another (yes, this is a combined application of chain-memory and peg-memory):

(D2) I'm outside in the hot sun getting a *tan*, but I'm really burning and it hurts

(H5) There's a tropical drink station on the beach and there is a very prominent brass *rail* where I

want to rest my feet while I order a cool drink, but I can't quite reach it with my feet

(HQ) I sit in a stool made of white *rattan*; hear the distinctive creaking sound as you sit and try to reach the rail with your feet

(H3) Sitting next to me is a guy holding on to the reins of his riding *ram* and the ram is chewing the rattan (this is an important connection as it's easy to forget the rattan without making the ram do something with it)

(H10) he pulls out of his pocket a scale model of a NASCAR *race* track and places it on the counter, and the cars start going around

(DA) Alice from Wonderland (a *tot*) walks up to take a look at the model race track

(DK) she puts a pint-sized *totem* pole right in the middle of the oval racetrack

(HJ) one of the effigies in the totem has a machine gun in its hand and starts shooting at the cars (rat-a-tat-tat)

(H4) many of the cars are Corvettes with their distinctive *rear* ends (four circular red lights, 2-by-2). The bullets are shooting out the red lights

(DJ) a teetotaler comes up to us at the tropical bar and lectures on the violent side-effects of drinking alcohol, using the machine-gunning totem as evidence

(H7) he points to a *rack* of antlers mounted on the wall of the tropical bar as further evidence: the hunter must have been drinking to go after such a huge caribou

(D9) we all laugh and him and order the bartender to pull us more beers from the *tap*

(H8) some divers out in the *reef* hear the sound of the enormous beer tap pouring beer and pop their heads out of the waves and shout at us to pour some for them, too

(D3) we notice that some of the divers are wearing *tam*-o-shanters over their dive helmets

(D5) tigers (with orange-and-black striped *tails*) run along the beach into the waves and snatch the tam-o-shanters in their jaws.

(D6) they run a big circle over toward us, stop and wipe tears from their eyes (with *tissues*) out of regret for stealing the tam-o-shanters

(H2) all of a sudden, it clouds over and a driving, tropical rain soaks the weeping tigers with tams in their teeth and pounds on the roof of the tropical drink station

(HK) the weather radio in the back of the bar starts to blare news at a high volume about the storm and pulse very brightly with green *radium* glow

(HA) huge black *rats* scurry out from behind the bar, scared out by the sudden noise of the radio – see the radium glistening on their greasy, rain-soaked fur

(D4) the rats run all the way out to the */tar/*mac in the parking lots near the beach, and the hot tar is steaming from the sudden rain; the rats are jumping on the hot tar

(D8) they run over to piles of hot green and white *taffy* piled up in one corner of the tarmac and start eating it voraciously

(D10) on top of the piles of taffy are young women painting their */toe/*nails – yes, in the driving rain – and dripping the toenail polish on the taffy

(D7) the toenail polish is running down the taffy and flowing around the shafts of enormous thumb*/tack/*s embedded in the base of the piles of taffy

(H6) under each thumbtack is a doctor's prescription for *rash* medication; it's going to help with all the sunburns we got

(H9) tied to each prescription is a burlap *rope* (don't know where this is going, yet, but just tie them up

(DQ) at the other end of each rope is a *titan*, a robot, pulling on the rope

That's it – now close your eyes and run through the movie in your mind, and the cards will play out in order. Try not to go back and peek. If you have to do that, it means that you didn't form a sufficiently strong association linking one mental picture with the next. Practice will make perfect!

tan, rail, rattan, ram, race, tot (Alice), totem, ratatattat, rear (shooting out the Corvette brake lights) teetotaler, rack, tap, reef, tam, tail, tissue, rain, radium, rat, tar, taffy, toes, tack, rash, rope, titan

D2, H5, HQ, H3, H10, DA, DK, HJ, H4, DJ, H7, D9, H8, D3, D5, D6, H2, HK, HA, D4, D8, D10, D7, H6, H9, DQ

I had to really work hard to recall rattan and rear, which means I didn't form the connected images strongLY enough first time around. practice practice practice.

12.8.4 The 70s and Clubs

By now, you know the drill. The 70's are another decade in the regular peg list of the second layer of the system. Just as the 10's stand for the diamonds (because the 'D' of 'diamond' is a sound for 1, and 1 is the first digit of each visual memory word for the diamond suit), and the 40's stand for hearts (because the 'R' of 'heaRts' is a 4-sound), the 70's stand for the club suit. You will get three bonus visual-words from the third layer for the Jack, Queen, and King of clubs. Practice with the club suit alone, locking in the visual words, then mix in the hearts and diamonds. You will be able to memorize a shuffled pack of these 39 cards and impress yourself. Without further ado, here is my list:

Num	Sounds	Card	Peg	Description	More
70	KS	C10	case	leather attache case with handcuffs	gas goose wax coat kite goat cane canoe gun cameo comb wigwam
71	KT	CA	cat	black cat, green eyes	choir crew curry claw collie eagle
72	KN	C2	can	empty coffee can, label torn off	cash gaucho gauge gong kayak keg
73	KM	C3	cam	camshaft from a big detroit V8 engine	calf coffee guava cape cowboy guppy
74	KR	C4	car	colorful NASCAR race car	cathode cathedral quietude
75	KL	C5	coal	black messy coal or hot one	cotton catnip kidney
76	KJ	C6	cage	cage for an animal (rabid dog?)	academy godmother Gotham
77	KK	C7	cake	over-tall, toppling wedding cake	
78	KF	C8	cuff	dress-shirt cuff hanging out of ill-fitting suit	
79	KP	C9	cap	baseball cap	
711	KTt	CJ	cadet	Navy cadet in dress uniform	
712	KTN	CQ	katana	samurai chopping with katana sword	
713	KTM	CM	catamaran	absurd inflated raft catamaran	

12.8.5 The 90s and Spades

This is the last set of ten, permanent peg words in the second layer of the system, with three bonus words from the third layer so we can memorize the last suit of a card deck, the spades. Every number in the 90's begins with the digit 9, and the consonant cluster for 9 is B and P. The word "Spade" encodes to 091; ignore the leading zero and pick the 9=P to stand for the spades, so the spades will come from the 90's. In later blogs, we'll summarize the entire second layer, add a couple of odds and ends, and work on applications like card tricks.

Num	Sounds	Card	Peg	Description	Others
90	PS	S10	Base	Home base in a ball field	abess boss pizza
91	PT	SA	Bat	baseball bat in the hands of a slugger	pot bath pod bun
92	PN	S2	bean	Steak-size kidney bean steaming on a bed of lettuce	piano ebony
93	PM	S3	beam	Huge timber in the low ceiling of a pub; hit your head on it	bum opium puma
94	PR	S4	bar	The pub itself: crowded, loud, stuffy	pier bear opera
95	PL	S5	ball	Baseball: stitches, tacky leather, autographs	pool belly bowl
96	PJ	S6	badge	Heavy, bronze sheriff's badge pulling your clothes	bush pasha peach
97	PK	S7	back	exposed back of ballerina	beak book bug
98	PF	S8	beef	Steak dinner (don't confuse with bean)	beehive buffet puff
99	PP	S9	pipe	Rene Magritte's famous painting; or Einstein	babe bobby pope
911	PTT	SJ	potato	baked potato with all the fixin's; see 92, 98	habitat beatitude pas de deux
912	PTN	SQ	baton	relay race; pass the baton	beatnik bedouin petunia
913	PTM	SK	podium	lecturer or preacher at the podium	badminton speedometer epidemic

12.9 Calculating Day of the Week

I blogged this out here:

<https://rebcabin.wordpress.com/2015/07/03/590/>

Here is an edited scrape:

Remember Dustin Hoffman's character in the movie "Rainman," who can instantly say the day of the week for a given date? Of course, he was an autistic savant and probably didn't know and certainly couldn't teach how he does it, but here is a method I learned from my Dad [Furst has the same method].

Preliminaries:

Do all math mod 7, that is, you only need to keep the remainder of the results of any calculation after dividing by 7. Thus, 15 is 1, 33 is 5, 49 is 0, etc.

Every day of the week has a number, starting with 1 for Sunday and ending with 0 for Saturday. Your goal is to convert any Gregorian calendar date into such a number.

Jan and Feb belong to the year BEFORE. The reason is that leap years add a day at the end of Feb and it makes all the math easier to think that Jan and Feb 1963 are really part of 1962, for example. Also remember that the Romans started their year with the month of March. Maybe it was for a similar reason.

Example:

29 Nov 1872.

First convert the century. 1900 happens to be a 0, so that's really really easy and convenient. The numbers for all other centuries go in a cycle 6 4 2 0, which is also really easy to remember: "AGES RUN IN SEQUENCE." Because 1900 is 0, 2000 is 6, 2100 will be 4, 2200 will be 2, etc. 1800 is 2.

Keep 2 in your head and move forward.

Now convert the year, and there are two steps. First, the year mod 7 because each year is one day longer than a multiple of 7, namely 364. $72 \bmod 7$ is 2. Add 2 to the 2 we're carrying to get 4 so far.

Now get the number of leap years in the century. That's $72 / 4$, or 18 discarding the remainder; that's 4. Add it to the 4 we're keeping, which is 8, which is 1.

Now get the month. Here are mnemonics for months:

Mar	Irish	4	St. Patrick's Day
Apr	Easter	0	
May	National	2	Memorial Day
Jun	Altar	5	Lots of weddings in June
Jul	Sun or Summer	0	First full sunny month of summer
Aug	Moon	3	Start seeing harvest moons in Aug
Sep	Job	6	Labor Day
Oct	Travel	1	Columbus Day
Nov	Restaurant	4	Eat turkey in a restaurant
Dec	Church	6	Christmas in a church
Jan	New	2	New-Year's Day
Feb	Love	5	St. Valentine's Day

If you forget one, you can recalculate a month number by just adding up the $30 = 2$ and $31 = 3$ days from the beginning of the year in March (mod 7, of course). The day counts for the months go like this: 32323/32323/30, nice easy pattern, or you can sing the “30 days hath September, April, June, and November” ditty if you prefer. Whatever works.

We’re carrying a 1 in head. Add a 4 for Nov, giving 5. Almost done.

$29 \bmod 7$ is 1; add our 5, we get 6. 29 Nov 1872 was a Friday.

Do this a few times and check yourself against Google or timeanddate.com. You’ll make a few mistakes when getting started, but after a little while you’ll be able to do it quickly and reliably.

Let’s try today, 21 May 2022:

$$2000 = 6$$

$$22 = 1 + = 0$$

$$\text{ly} = 22/4 = 5 \text{ discarding the remainder}$$

$$\text{May} = 2 + = 7 = 0$$

$$21 = 0 + = 0$$

Today is Saturday.

13 All Pegs and Sound-Alikes

Letters for hex, ASCII, and R36, R64 alternative methods are included in the row headers.

TODO: My personal permanent peg words are first in each block and in all-caps. My short-list of preferred sound-alikes are in the first row of each table.

I don't (yet) have a memorized peg for every number, just for the most useful ones. It takes time to come up with good pegs. It's a quadratic process because I pick pegs that don't collide visually with the ones I already have. Picking a new peg means thinking about all the others picked so-far. I already have CHAIR for 64 (used all the time), so SEAT for 01 and THRONE for 142 are not good ideas because they might incorrectly recall 64 at speed.

00	SAUCE assess seize	icehouse assize size	oasis houses	sissey sassy	sass say-so	seesaw seas
01	SOD east seedy soot suede waste	Swede haste settee sooth suet west	acid host side sot suit	aside sad sight south suite	asset seat sit stay swat	city seed site stew sweet
02	SUN seen soon	assign sign swan	hosanna sin swine	ozone sinew zone	sane snow	scene son
03	same sum	seam swami	seem swim	semi assume	some asthma	somehow psalm
04	seer sorrow hussar	sewer sour wiser	sir zero	soiree czar	sore eyesore	sorry hawser
05	sale slay sole easily	sail slaw solo hazel	seal sleigh soul hassle	sell slow cell swallow	sill sly assail weasel	silly soil easel whistle
06	sage such usage	sash swatch	sashay switch	sedge assuage	sewage ice-age	siege ice-show
07	sack sago sock husky	sake ski squaw icing	seek sky assegai whiskey	sea-cow suck ask wise-guy	sick soak hoosegow	scow soggy housing
08	safe suave	save savvy	savoy housewife	sieve ossify	sofa	Sufi
09	sap sop subway wisp	soap swab zebu	sob swap zip	soup swipe asp	spa sweep espy	spy swoop wasp

00	SAUCE size sass	say-so assess sassy	seas assize	seesaw houses	seize icehouse	sissy oasis
01	SOD sit soda suit aside waste	sad site sot suite asset west	seedy settee stay swat acid whist	seat soot stew Swede east seed	side sooth suede sweet haste seedy	sight south suet city host
02	SIGN son hosanna	scene snow zone	seen sane ozone	sun swan assign	sin swine	soon sinew
03	SEAM sum	seem swami	seem swim	semi assume	some asthma	somehow psalm
04	SOAR sorrow hussar	sewer sour wiser	sir zero seer	soiree czar	sore eyesore	sorry hawser
05	SAIL slay sole easily sawzall (005)	sale slaw solo hazel	seal sleigh soul hassle	sell slow cell swallow	sill sly assail weasel	silly soil easel whistle
06	SASH such usage	sage swatch	sashay switch	sedge assuage	sewage ice-age	siege ice-show
07	SACK sago sock husky	sake ski squaw icing	seek sky assegai whiskey	sea-cow suck ask wise-guy	sick soak hoosegow sake (wine)	scow soggy housing
08	SAFE suave	save savvy	savoy housewife	sieve ossify	sofa	Sufi
09	SOAP sop subway wisp	soup swab zebu	sob swap zip	sap swipe asp	spa sweep espy	spy swoop wasp

010	SAWDUST	seduce	sideways	stays	South-Sea	assets
A	assiduous	citizen	cities	hostess	sweets	
011	STATUE	state	steady	sedate	steed	stout
B	studio	sit-down	astute	estate	hesitate	iced-tea
	wasted	sated				
012	STAIN	sedan	Satan	sadden	sodden	sudden
C	stand	satin	standard	stench	stint	stein
	stone	stun	stunt	sweeten	sit-in	Sweden
	Estonia	astound	hesitant	pseudonym		
013	STEAM	sodium	stamp	sediment	stem	stomach
D	stampede	stamina	stump	esteem	estimate	wisdom
014	SATYR	Saturn	Saturday	setter	satire	star
E	stare	steer	stir	store	story	storm
	straw	stream	stroll	sterling	strike	strip
	struggle	suitor	swatter	sweater	cedar	cider
	astronaut	astir	astray	austere	Austria	Easter
	history	hysteria	oyster	ouster	stair	
015	SADDLE	settle	cedilla	stale	stall	steal
F	steel	still	stool	style	sadly	hostile
016	STATION	stage	stitch	stodgy	stooge	hesitation
G	hostage	wastage				
017	STIGMATA	stag	stake	stalk	steak	stick
H	sticky	stock	sting	stoic	stoke	stucco
	stigma	setting	sciatica	ascetic	stack	
018	STOVE	stave	stiff	staff	stuff	sea-devil
I	set-off	wasteful				
019	STEEPLE	steep	step	steppe	staple	stab
J	stoop	stop	stupid	stipend	stub	seat-belt
	estop	eastbound	southbound	sweetbread		

020 K	SUNSET seance usance	science sense snooze	since census	sincere easiness	sinister essence	sinus iciness
021 L	SAINT senate sundae swindle	sand sonata Sunday ascent	sandal sonnet synod assent	sanity sound scent	sent snoot cent	sentiment snout zenith
022 M	ASSONANCE sinning	snow-knife assonant	synonym	asinine	sea-onion	signing
023 N	CINNAMON	snowman	cyanamide	cinema	sea-anemone	wisenheimer
024 O	SONAR snort	senior snarl	sinner sonorous	snare scenery	sneer sunrise	snore
025 P	SNAIL	snell	senile	sunlamp	sunlight	
026 Q	CINCH sunshine	singe censure	snatch snitch	sensual century	snowshoe ascension	snow-job
027 R	SINK snug	snack synagogue	sea-anchor zinc	scenic isinglass	snake cynic	sneak
028 S	SNUFF snuffle	snowflake	snafu	sniff	sinful	sniffle
029 T	SNOWBALL snap	sign-up synopsis	snipe snip	snob	snoop	snub

030 U	SAMSON swimsuit	sea-mouse Siamese	seamstress osmosis	semester	semisweet	semicircle
031 V	CEMETERY Semite	smite symmetric	smith assumed	smooth housemaid	smut	summit
032 W	SALMON summon seeming	cement sameness	seaman iceman	seminary yes-man	semantics awesomeness	somnolent wisewoman
033 X	OSMIUM semi-moist	semi-monthly	semi-metal	semi-matte	semi-member	semi-mobile
034 Y	SWIMMER samurai	simmer summary	smart	smear	smirk	summer
035 Z	SAWMILL smell	simile smile	sea-mile seamless	seemly assimilate	similar	small
036 a	SMOOCH	smidgen	so-much	smudge	smash	
037 b	SMOKE	smack	smuggler	seeming	swimming	sumac
038 c	SEMAPHORE	samovar	semifinal	semiformal	symphony	
039 d	CYMBAL symbol	sample sympathy	simple samba	somber zombie	somebody assembly	swamp

040 e	SEA-HORSE sarcen	series	serious	sewers	source	Circe
041 f	SARDINE swarthy	sardonic assert	seaward assort	seaworthy certain	sort hazard	sortie wizard
042 g	SIREN sworn	serene Sauron	serenade	Syrian	surname	surrender
043 h	SERUM	sermon	swarm	ceramic	ceremony	
044 i	SORORITY	searer	sour-herring	swearer	zero-hour	
045 j	CEREAL	sirloin	seraglio	sorrel	Israel	serial
046 k	SERGEANT sea-urchin	serge	search	surcharge	surge	surgeon
047 l	SAUERKRAUT circuit	sarcasm circumstance	circle circle	sour-cream zircon	sirocco sarong	circus
048 m	SERAFIM survive	serve survey	servile servant	surf sorrowful	surface serafic	surfeit serf
049 n	CERBERUS surprise	sourpuss syrup	surpass sauerbraten	surplice usurper	surplus	serpent

050	SOLSTICE	sales	slice	sluice	solace	solicitor
o	sal-soda	solus	solos	useless		
051	SALAD	salt	salute	slate	sled	sleet
p	assault	household	isolate	ocelot	oscillate	silhouette
	slaughter	slide	slight	slit	slot	solid
	solitaire	sultan	zealot			
052	SEA-LION	saloon	sea-lane	sealant	saline	slain
q	aslant	cylinder	silent	slander	slant	slender
	sullen	swollen	zillion			
053	SALAMANDER	slam	slim	slime	slow-motion	slumber
r	Islam	asylum	cell-mate	solemn	soul-mate	
054	SAILOR	salary	seller	sealer	slayer	solar
s	celerity	celery	cellar	whistler		
055	CELLULOID	sea-lily	slowly	slyly	soliloquy	cellular
t						
056	SOLUTION	slouch	sludge	slash	slush	zoology
u	isolation					
057	silk	slake	slang	sling	sleek	sea-legs
v	ceiling	select	silica	slack	sulky	
058	SALVE	salvo	saliva	salvage	salvation	slave
w	self	silver	sleeve	sliver	solve	soulfood
	soulful	sulfur	sylph			
059	slipper	slab	slap	sleep	slip	sailboat
x	celebrate	celibacy	sloop	slop	slope	slowpoke

060	SAGES	sea-chest	sieges	switches	sash-saw	sashes
y	suggest					
061	SAGITTARIUS	siege-tower	sash-weight	switch-hitter	associate	sachette
z	satiate	sagittal	soshed			
062	SWITCH-KNIFE	session	sash-window	sedge-hen	sea-change	scission
+	sashoon	seashine	suasion	cession		
063	SASHIMI	satchem	switchman	sea-chime	sea-chum	
' /						
064	seashore	saw-shark	saw-sharpener	seizure	sojourn	suture
	switcheroo					
065	sash-line	sage-oil	satchel	seashell	switch-line	social
066	switch-shift	wise-judge	sage	cheese	association	
067	sash-cord	sedge-grass	siege-coin	switchgear	switch-cane	
068	sedge-fly	switch-ivy	switchover			
069	sagebrush	s-shaped	sash-pocket	sedge-bird	swashbuckle	switchblade
	switch-box					

070	seacoast Saxon	sea-goose squeeze	sex sax	six socks	saxophone	success
071	squid skeet socket	scatter scout Scot	scat scuttle ascot	squatter skate weskit	skid sect Scottie	skit sea-god
072	scan sickness zucchini	scanty schooner askance	scandal scoundrel	sequin signal	second skin	sicken sea-gown
073	sagamore	scheme	scum	skim	sycamore	Eskimo
074	scar singer secret cigar whisker	scare score secretary escarole	scarce square scream escort	scarlet squire scrap escrow	screw squirt screen Oscar	scrawl secure skirt ice-cream
075	scallop sea-gull skeleton icicle	school sequel skull ossicle	scallion sculptor squall	scull scholar squill	scale sickle suckle	scalp single cycle
076	sagacious	sketch	squash	Scotch	escutcheon	
077	skeg asking	seeking easygoing	sea-king sukiyaki	seaquake singing	squeak	squawk
078	scaffold scuffle	scavenger	scoff	scofflaw	skiff	scuff
079	scab squib	scoop squabble	scope escapade	ski-boot escape	skip housekeeper	skeptic icecap

080	sophist	saves	sufism	suffice	suffuse	housewives
081	safety seafood	sift sea-fight	soft	swift	Soviet	safe-deposit
082	seven housephone	siphon	souvenir	sea-fan	suaveness	Savannah
083	seafoam	sophomore	sea-vampire	suffumigate		
084	saffron savor zephyr	sapphire several whosoever	savior suffer cipher	sever sovereign	severe suffragette	sphere safari
085	safely swivel	seafowl civil	safflower asphalt	safelight ice-floe	souffle useful	suavely
086	savage	safe-edge	icefish	housewifish	sawfish	sufficient
087	safeguard esophagus	saving civic	safe-conduct	savoy-cabbage	suffix	suffocate
088	save-face	safe-haven	sieve-field			
089	sieve-pit	sofa-bed	SVP	sieva-bean		

090	space soupcon	specify auspices	spice asbestos	spouse	suppose	sea-biscuit
091	spade spout hospital	spate spud Sabbath	speed scepter September	spit soup-tureen	spite subdue	spot houseboat
092	span soybean espionage	spin supine	spine subpoena	spoon has-been	spend subnormal	Spain aspens
093	submarine subminiature	submerge	submontane	submit	spume	spumoni
094	soprano spark spray superb asparagus	spare sport sober separate isobar	sparrow spread saber cypress osprey	spear spry supper zebra whisper	spire spree super aspire	spirit sopor spring aspirin
095	splash spool zeppelin	spleen supply esplanade	splendid sowbelly	split seaplane	spell sublime	spoil sibilant
096	speech subagent	seabeach subject	special waspish	specie auspicious	spatial	seepage
097	sawbuck zip-code	speak aspic	speck aspect	spike ice-pick	spook ice-bag	spectacle ice-pack
098	spiff subway-fare	spoof	soap-flake	soupfin	subfreezing	subaverage
099	sea-poppy house-paper	soapbark	soapberry	soapbox	soap-bubble	subprincipal

0	SAW a-sea easy is us	ice ace essay ooze use	house as eyes sea was	hose ass has sew wise	haze assay hawse so woozy	zoo ayes his sow yes
1	TEA ad die eddy height idea thaw toe watt white	hat add do etui hide it thee tow weed wide	hood aid dough hate hit oath they toy weight wit	oat at due head hoot odd thigh wad wet with	yacht auto dye heat hot ode though wade what youth	widow day eat heed hut tee tie wait wheat
2	NOAH an ennui inn now wino	honey ana gnaw know one	knee anew gnu neigh own	ion ani hen new wan	win annoy hyena nigh wean	wine any in no when
3	ME May hum	ammo may home	ham mow hymn	hem maw whim	womb aim whom	Emmy him
4	RAY raw array err hero or where	roe rye awry here hour ore worry	arrow air aware her harrow our weary	hair are aura hare hurrah war year	oar area ear hear hurry wear yore	wire aria era heir ire ware your

5	LAW	lay	lei	lie	lye	low
	ail	ale	all	alley	ally	allow
	alloy	aisle	awl	aloha	ell	eel
	hall	hail	halo	heal	heel	haul
	hell	hill	hole	hollow	howl	holy
	hull	hello	ill	isle	ole	oil
	olla	owl	wall	wail	whole	wheel
	while	whale	wallow	willow	will	waylay
	wool	Yale	yawl	yellow	Yule	
6	JAW	jay	Jew	Joe	joy	jus
	chew	chow	age	ash	Asia	edge
	each	etch	hatch	hash	hitch	hedge
	huge	hush	hutch	shah	she	shoe
	show	shy	issue	wage	wash	watch
	wish	wedge	which	witch	woosh	
7	KEY	caw	cow	coy	coo	cue
	gay	go	guy	quay	queue	ache
	ague	aggie	ago	awake	echo	egg
	ego	Ike	IQ	hack	hag	hang
	hawk	Hawkeye	hick	hike	hock	hockey
	hog	hook	hookah	hooky	hug	oak
	walk	wake	weak	week	whack	wick
	wig	yak	yoga	yoke	young	
8	FEE	few	foe	vie	via	view
	vow	ave	half	halfway	have	hoof
	hive	heave	heavy	hi-fi	huff	ivy
	oaf	of	off	wave	waif	weave
	wife	waive				
9	PEA	paw	pay	pew	pie	bay
	be	bee	beau	boa	bough	bow
	boy	buoy	buy	by	bye	abbey
	ape	ebb	epee	happy	heap	hip
	hippie	hobby	hoop	hope	hobo	hubby
	hop	obey	oboe	web	weep	whip
	wipe	whoopee				

10	TOES	tease	this	these	those	thus
	toss	twice	twos	dais	days	daisy
	daze	deuce	dice	dizzy	dose	douse
	doze	does	ads	adds	eats	hideous
	hothouse	ideas	idiocy	ides	odds	odious
	oats	wits	White-House			
11	TOT	tattoo	tooth	tide	tight	tidy
	today	toad	tithe	teddy	thought	tutu
	dad	date	death	dead	data	debt
	deed	diet	dot	dote	doubt	duty
	deity	adit	audit	edit	idiot	oddity
	outwit	without				
12	TAN	ten	tin	ton	tone	tony
	tun	tuna	tune	town	twin	than
	then	thin	thine	twine	dawn	Dane
	deign	dean	den	deny	din	dine
	done	down	dune	Athena	attain	atone
	attune	Eden	heathen	heighten	hidden	
13	TAM	tame	team	teem	them	theme
	time	thumb	tomb	tome	thyme	dam
	dame	deem	demi	dim	dome	doom
	dumb	dummy	dime	Adam	atom	autumn
	edema	Edam	idiom	item	odeum	odium
14	TAR	tare	tear	their	theory	there
	three	throw	thorough	tire	tier	tiara
	tower	try	tray	tree	trio	TRUE
	dare	dairy	dear	deer	diary	door
	dower	dowry	dry	draw	dyer	adder
	adhere	author	adore	attire	either	ether
	hatter	hither	heater	hydra	other	otter
	odor	udder	utter	water	waiter	weather
	widower	whiter	with			

15	TAIL	tale	tall	tallow	tally	tell
	tile	till	toil	toll	tool	towel
	daily	deal	delay	dial	dole	doll
	dolly	doily	duel	dual	dull	dwell
	atoll	hotel	huddle	ideal	idle	idol
	idyll	Italy	outlaw	outlay	whittle	
16	TISSUE	teach	touch	touche	thatch	dash
	dish	ditch	Dutch	duchy	dodge	attache
	attach	adage	adagio	whitewash		
17	TACK	tag	take	talk	tick	toga
	Tokay	tuck	twig	thick	thing	thong
	thug	tyke	decay	deck	dig	dike
	dock	duck	duke	dung	doing	ding
	dong	dog	decoy	attack	attic	ethic
	eating	haddock	headache	heading	outing	wedding
18	TAFFY	tiff	thief	toffee	tough	tuff
	TV	daffy	deaf	defy	dive	dove
	diva	edify				
19	TAP	tape	taboo	tabby	tab	tip
	tub	tube	top	type	tepee	toupee
	tup	dab	daub	deep	depot	dip
	debut	dope	doughboy	dupe	adobe	

20	NOSE anise ones	news ensue ounce	niece hence onus	nice hens uneasy	noise highness wins	noose once wines
21	NET need and hand hunt knead wand	naught nude ant hind into undo want	not nut aunt hint India undue went	note ante end haunt knight unit wind	night anti endow hound knit untie window	neat annoyed gnat Hindu knot unite wound
22	NUN noun onion	noon neon union	none no-one	nine anon	nanny anyone	ninny inane
23	NAME gnome	numb	anemia	annum	enemy	enema
24	NERO noria unaware	narrow anywhere winner	near honor winery	nor inhere whiner	nowhere inure	newer owner
25	NAIL annual kneel	newel annul knell	newly enisle knoll	nil inhale only	Nile inlay unholy	null in-law
26	NICHE haunch winch	notch hunch	nudge hinge	no-show inch	enjoy unhitch	gnash wench
27	NECK awning knock	nag hunk unique	nog ink unhook	nick inning wink	nock Inca Yankee	nook knack
28	NAVY envy	nave envoy	naive inveigh	nova knave	nephew knife	enough unify
29	NAP nip	nab nub	neap Niobe	nape honeybee	nappy knob	nib unhappy

30	MASS miss Messiah humus	mace moose amass hummus	maze mouse amaze	mess muse amiss	mews moss aims	mice muss amuse
31	MAT meat mouth motto amid	mate meet might mud amity	made midday mite mute emit	maid middy mode mod omit	mad midway mood myth humid	meadow moth moat mitt
32	MAN manna money omen	mane mine mien woman	mana minnow amen yeoman	mania mean ammonia	main moan hymen	many moon human
33	MAMA mime	maim Miami	mayhem imam	Mau-Mau whim-wham	memo	mummy
34	MARE mere amour	mar merry emir	marrow more hammer	marry mire homer	Mary moor humor	mayor myrrh omer
35	MAIL mile homily	male mole	mall mill	meal mule	melee moll	mellow homely
36	MATCH mush	mash mooch	mashie homage	mesh image	midge Amish	much
37	MIKE mug among	make mocha hammock	meek Mecca omega	mica Mohawk umiak	mock amigo	muck amok
38	MUFF oomph	mauve	Mafia	miff	move	movie
39	MAP hemp amoeba	mop hump	mope imbue	maybe imp	mob amp	myopia ump

40	RACE rise eros hers warehouse	racy rose erose hoarse worse	raise rouse harass horse Warsaw	rase ruse hearse heiress	raze arouse hearsay iris	rice erase heresy ours
41	RAT read root right earth hearth hurt wrath weird	rate ready rot arid errata herd hurried wreath	radio rid route aright erode hereto ward wreath	raid ride rut art hard hoard wart write	reed road rite award hart horde word yard	red rod riot aorta heart horrid worth worried
42	RAIN Rhine arraign iron warn	rein rune earn irony	reign rhino hernia Irene	renew Reno heroin Orion	run arena heroine urn	ruin Aryan horn worn
43	RAM rum aroma	rim roam harm	rhyme Rome harem	ream Romeo warm	room arm worm	rime army
44	REAR error wearer	rare harrier hearer	roar harrower orrery	rower horror	arrear warrior	aurora worrier
45	RAIL rely rule oriole	rally rill earl aerial	railway roil early whirl	real role hourly whorl	reel roll hurl yearly	relay royal oral
46	RASH rich Russia wretch	rage ridge arch	ratio rouge harsh	Rajah ruche Irish	reach rush orgy	roach rushee urge
47	RAKE rogue ark herring	rack rook argue heroic	rag rug arc work	reek rig ergo wreck	rock ragout hark	ring airing hearing
48	REEF roof arrive	raffia rough aerify	review rave horrify	revue ruff wharf	riff rive	rife rove
49	ROPE ripe ruby Europe	rap rib rupee Arabia	rape rabbi harp warp	reap rob herb	repay rub hereby	rip robe orb

50	LACE lees louse always	lass less luce also	lassie lessee Lucy alias	lazy loose alas Eliza	lasso lose alehouse else	lease loss allies
51	LOT let loud allot alight hold old	lad lid loot allude elate hilt wild	lathe lead lido aloud eyelid holiday wallet	late light lout although elite Hollywood wealth	lady load lute allied halt helot	lath loath allowed alit health islet
52	LANE loan Halloween	lawn loin woolen	lean loon	lien alien	line alone	lion hellion
53	LIME Limey haulm	lame limb helm	lama loom helium	lamb loam	lima alum	lime elm
54	LAIR lorry Holy-Year	layer lure oiler	lawyer lyre whaler	leer allure	liar healer	lower holler
55	LILY lolly ill-will	lisle lull oil-well	loyal lulu Walhalla	lowly holy-oil whale-oil	Loyola hallelujah	loll hula-hula
56	LASH lodge Welsh	latch loge	leash lush	liege allege	leech hellish	ledge ullage
57	LAKE leak log loco hillock	lack leek long low-key hulk	lackey leg look alike hollyhock	lag lick luck along ilk	lac like lug ailing whaling	league lock lung elk
58	LEAF loaf aloof	lava love elf	laugh levee olive	leave levy welloff	life luff wolf	live alive
59	LAP lop elbow	lab lobby elope	leap lowboy help	lip loop whelp	lob alibi wallop	lobe alp

60	CHESS choose juice	chassis ashes wages	chase ages schuss	chaise Jaycee	cheese Jewess	choice joyous
61	JET jade shade shoot washed	chateau chat shadow shot	cheat jetty shed shout	cheetah jot shad shut	chit jute sheet aged	chute judo sheath widget
62	CHAIN John + Shawnee	chin June hygiene	chine join ocean	China shine widgeon	gin shown	Jane shun
63	CHIME jamb '/ sham	chamois Jim	chum sham	gem shame	gym shammy	jam shimmy
64	CHAIR jar sheer assure Hoosier	cheer jeer sherry azure	cherry jury shire washer	chore osier shore usher	char share shower wager	edger shear sure hosiery
65	JAIL A jolly shallow	chill jowl shoal	Chile July shill	chili shall shyly	jelly shell agile	jewel shawl usual
66	JUDGE B Jewish wishy-washy	cha-cha josh	chichi juju	choochoo shush	chowchow shoji	jaygee hashish
67	CHALK C chuck jingo shake etching	check chic joke shock washing	cheek jack jug shuck wishing	choke jock shag sheik watching	chug jockey shako aging	chick Django shack itching
68	CHEF D Java sheaf	chafe jayvee shove	chaff Jehovah achieve	chief jiffy wash-off	chive jive	Chevy shave
69	CHIP E g.p. job shop	chap gyp Job hush-up	chapeau jab shabby	cheap jib shape	chop jibe sheep	chubby jeep ship

70	CASE	cause	causeway	cozy	cuss	chaos
F	gas	gauze	gaze	goose	guess	guise
	guys	kiss	quasi	ax	accuse	acquiesce
	eggs	hex	hoax	ox	wax	haggis
71	CAT	caddie	co-ed	coat	code	cot
G	cut	cute	gate	gait	gaiety	gat
	gaudy	get	goat	God	good	gout
	guide	goad	ghetto	Kate	kid	kite
	kitty	kit	quiet	quit	quite	quote
	quota	act	acquit	acute	weekday	wicked
	wicket					
72	CAN	cane	canoe	coin	coon	cone
H	gain	gown	gun	guinea	keen	kin
	queen	again	acne	agony	awaken	icon
	oaken	wagon				
73	CAM	comb	calm	cameo	coma	comma
I	come	game	gam	gum	acme	hokum
	oakum	wigwam				
74	CAR	care	carry	coheir	cohere	core
J	cower	crew	crow	cry	cur	cure
	curry	choir	grey	grow	gory	gear
	guru	quarry	queer	quire	acre	agree
	agar	acquire	accrue	anger	eager	eagre
	ecru	euchre	occur	ogre	okra	hiker
	hooker	hugger	hogger			
75	COAL	call	clay	coil	cool	coolie
K	collie	clew	claw	clue	gale	gall
	gal	galley	glee	glow	glue	goal
	gully	Gaul	kale	keel	keyhole	kill
	quail	quill	eagle	equal	haggle	hackle
	heckle	ogle	ugly	weekly		
76	CAGE	cash	catch	cache	cachet	cashew
L	coach	couch	gash	gage	gauge	gush
	gauche	gaucho	ketch	kedge	hoggish	hogwash
	waggish					
77	CAKE	calk	caulk	cock	coke	cook
M	cacao	cuckoo	cookie	gag	gangway	gang
	gong	going	goo-goo	gook	kaka	kayak
	khaki	kick	king	keg	quack	quake
	quick	aching	agog			
78	CUFF	calf	cave	cafe	coffee	cough
N	cove	covey	gaff	give	goof	guff
	guffaw	guava	quaff	agave		
79	CAP	cab	cabby	cape	cop	cope
O	coop	copy	cowboy	cub	cube	cup
	gab	guppy	gap	gape	keep	quip
	hang-up	hiccup	occupy	okapi	wickiup	wicopy

80	FACE	fizz	fuse	fusee	fuss	fuzz
P	vase	vice	vise	visa	voice	phase
	efface	effuse	office			
81	FAT	fate	feat	feed	fade	faith
Q	fad	feud	fete	fiat	fight	fit
	food	foot	photo	veto	void	voodoo
	vote	aft	aphid	avid	afoot	aviate
	avoid	evade	effete	ovate	off-white	waft
82	FAN	fain	fawn	fanny	feign	fen
R	fin	fine	fun	phone	phony	vain
	van	vane	vein	Vienna	vine	haven
	heaven	hyphen	avenue	euphony	even	often
	oven	ovine	woven			
83	FAME	foam	fume	vim	ovum	'effem
S	huff-em	woof-em	whiff-em	heave-em	have-em	hoof-em
84	FARE	fair	fairway	fairy	far	fear
T	faro	ferry	fiery	fir	fire	fray
	free	fry	fur	furrow	fury	foray
	four	for	foyer	Pharaoh	vary	very
	viewer	veer	afar	affair	affray	aviary
	ever	euphoria	heifer	hoofer	half-year	ivory
	offer	over	off-year	waver	waiver	weaver
	woofer					
85	FALL	fail	feel	fell	fellow	file
U	fill	filly	flaw	flea	flee	flow
	fly	foal	foil	follow	folly	fool
	foul	fowl	fuel	full	phial	valley
	value	veal	vial	veil	vail	vile
	viola	volley	vowel	avail	avowal	awful
	hovel	offal	oval	waffle		
86	FISH	fetch	fichu	fuchsia	fudge	vetch
V	vouch	voyage	affiche	effigy	offish	
87	FIG	fag	fake	fang	fog	foggy
W	fogie	vague	viewing	vic	vogue	havoc
	having	heaving	evoke	offing	waving	weaving
88	FIFE	five	fief	viva	half-off	
X						
89	FOB	faux-pas	fib	fop	phobia	Phoebe
Y	veep	VIP	half-pay			

90	BASE	pace	pass	pause	peace	piece
a	piazza	pious	poise	pose	PS	pussy
	bass	basso	bias	boss	booze	boys
	bus	busy	buzz	abuse	abyss	apiece
	appease	apis	epos	obese	oppose	opus
91	BAT	pad	pat	path	peat	pet
	petty	piety	pit	pity	poet	pot
	pout	put	putty	bad	bait	bath
	bead	beat	beauty	bed	bet	bid
	bight	bit	bite	boat	body	boot
	both	boyhood	booth	bout	bud	but
	butt	buddy	apathy	apt	abate	abet
	abide	abode	about	opiate	opt	habit
92	BEAN	pain	pan	pane	pawn	pen
	penny	piano	pin	pine	pony	pun
	pone	ban	bane	bin	bine	bone
	boon	bun	bunny	ebony	happen	subpoena
	weapon					
93	BEAM	palm	poem	puma	balm	Bohemia
	bomb	boom	bum	opium		
94	BAR	par	pair	pare	pear	payer
	parry	power	peer	pier	poor	pour
	pore	pray	prey	pry	prow	purr
	pyre	bare	bear	beer	berry	beware
	bier	borrow	boar	borough	brew	Boer
	bore	brow	bury	bureau	buyer	abhor
	apiary	appear	Hebrew	hopper	opera	upper

95	BALL	pal	pale	pail	peal	peel
	pile	pill	pillow	play	plea	pole
	ploy	pool	plough	plow	ply	payola
	pull	pulley	poll	bale	bail	belay
	bell	below	belly	bile	bill	billow
	blue	boil	bowl	blow	bull	bylaw
	able	appall	appeal	apple	apply	eyeball
	happily	highball	hobble	hoopla	opal	wobble
	uphill					
96	BADGE	page	pasha	patch	peach	pitch
	poach	pouch	push	posh	pudgy	batch
	beach	beech	budge	bush	bijou	boyish
	botch	abash	apish	apogee	Apache	hibachi
97	BACK	pack	pang	peak	peek	peck
a	peg	pick	pig	pike	poke	puck
	pique	bag	bake	bang	beak	beck
	beg	being	big	book	bouquet	bogey
	bog	buck	bug	buggy	aback	epic
	epoch	opaque				
98	BEEF	pave	peeve	payoff	puff	beehive
b	behalf	behave	bevy	biff	buff	buffo
	buffet	above	ab-ovo			
99	PIPE	pap	peep	baby	pip	pop
c	pope	papa	poppy	puppy	babe	bib
	bob	bobby	boob	boo-boo	booby	bop
	hubbub					

100	THESIS	decease	decisive	desist	disaster	disease
d	disuse	dissuasive	daisies	deuces	doses	diocese
101	TOAST	tacit	taste	test	testimony	Tuesday
e	twist	deceit	decide	deist	destiny	destitute
	destruct	distance	distaste	distinct	distinguish	distract
	distress	distribute	district	distrust	disturb	dust
	atheist	attest	audacity	outside		
102	DOZEN	decent	descent	design	dishonest	disinclined
f	disinfect	disinterest	disown	dissent	dissonant	dizziness
	Whitsunday	Docent	dissonance			
103	TWOSOME	theism	deism	decimal	disembark	dismay
g	dismember	December	dismiss	dismount	dissemble	dissimilar
	atheism	decimeter	decimate			
104	DOWSER	thesaurus	desert	dessert	deserve	desire
h	disarm	disarrange	discern	dishearten	disorder	disregard
	disreputable	disroot	dissertation	disrobe	disrupt	douser
	dicer	howitzer	dizzier	iodizer	woodsier	disarray
	tosser					
105	DIESEL	tassel	dazzle	desolate	disillusion	dislike
i	dislocate	dissolve	docile	deciliter	disloyal	white-sale
106	WOOD-SAGE	dosage	decision	discharge	dissuasion	autosuggest
j						
107	TUSK	task	desk	disk	discolor	discomfort
k	disclose	disconnect	discontent	discord	discount	discourage
	discourse	discover	discrete	discriminate	discuss	disgrace
	disguise	disgust	disquiet	dusk	outskirts	doeskin
108	ADHESIVE	theosophy	deceive	decipher	disaffect	disavow
l	disfigure	disfavor	tea-sieve	satisfaction		
109	TEASPOON	thespian	toss-up	despot	despair	deception
m	decibel	despite	despond	disabled	diaspora	disappear
	disappoint	disapprove	disciple	disobey	dispatch	dispense
	dispel	disperse	display	displace	displease	disposal
	disposition	dissipate	desperate	desperation		

110	TIGHTS	tedious	toothsome	tootsy	deduce	detest
n	statesman	status	statistical	studious	Adidas	
111	TEETOTALER	tete-a-tete	tidied	dietetic	day-duty	deadwood
o	doodad	dotted	doubted	attitude	audited	outwitted
	autodidact	Douthat (Ross)				
112	TITAN	Titanic	tetanus	tea-dance	two-tone	tidiness
p	tighten	deaden	detain	detonate	dead-end	sedateness
	steadiness	stoutness	student			
113	TOTEM	teatime	two-timer	tedium	TeDeum	diadem
q	datum	daytime	stadium			
114	TATAR	tater	tea-tray	tatter	theater	thither
r	tooter	totter	tutor	dater	daughter	deter
	deteriorate	determine	detract	detriment	daydreamer	diatribe
	auditor	editor	headwater	hot-water	stutter	
115	TITLE	tattle	tittle	tidal	tootle	titillate
s	total	dawdle	doodle	dateline	deadline	dead-letter
	deadly	detail	thoughtless	state-line	Dudley	
116	DEATHWATCH	detach	death-wish	dotage	hot-dish	dead-issue
t						
117	HOTDOG	toothache	dating	dedicate	deduct	detect
u	detective	tidings	tie-tack	idiotic	dedication	didact
	didactic					
118	AUTO-DA-FE	thoughtful	dative	dutiful	dutyfree	deadfall
v	additive	auditive	tutti-frutti	sedative		
119	TEDDY-BEAR	tea-table	tadpole	toothpick	tidbit	toothbrush
w	deadbeat	deadpan	deathbed	ditty-bag		

120 x	DANCE tinsel audience sadness	tenacity dense haughtiness	tennis dunce dynasty	tense ad-nauseum utensil	thence Adonis whiteness	tonsil Athens witness
121 y	DONUT thunder tantalize denude addendum astound	taint tint dainty dint identical	taunt tender dandy tent identify	tenth twenty denote dwindle whodunit	tendon TNT dent attend stand	tend twi-night dentist authentic stint
122 z	ATHENIAN hootenanny	tenon	teeny-weeny	denounce	adonian	tenant
123	thin-man denomination outnumber	tonometer dynamo	tenement dynamite	town-meeting atonement	denim attainment	Denmark autonomy
124	tanner tuner whitener	teener diner itinerary	tenor dinner	tenure donor	thinner downright	tone-arm wet-nurse
125	toenail downhill	thinly ethanol	tonal stainless	tunnel	town-hall	denial
126	teenager township astonish	tonsure Danish stench	tenacious dunnage attention	tannage donation wooden-shoe	tension dungeon	tonnage twinge
127	tank tunic Don-Quixote	thank twinkle ethnic	think dank hoodwink	tincture dinky satanic	tinker dining stenographer	tonic donkey
128	tinfoil twinflower	tuna-fish de-novo	tenfold downfall	ten-footer	tea-knife	tuneful
129	tenpin downbeat	tenpounder downpour	tinplate donnybrook	tune-up Danube	twin-bill dune-buggy	down-payment stoneblind

130	Thomas damsel atmosphere	teamster domestic utmost	team-song domicile	Thames demise	theme-song admissible	damask atomizer
131	tomato thumbtack dumbwaiter esteemed	tamed daymaid adamite	tom-tom deemed admit	timid demit automate	tumid diameter odometer	timeout dumdum estimate
132	T-man demand diminish admonish	Tammany demeanor dominate autumnal	thiamine demonstrate domain headman	time-honored demon dominion ottoman	thumbnail diamond domino stamina	tameness dimension administer sediment
133	teammate	time-money	time-immemorial	dime-museum	demimonde	demi-magic
134	tamer tumor stammer	tamarind demure steamer	timer demarche	tomorrow demarcation	tommyrot admirer	Tia-Maria admiral
135	tamale timely oatmeal	time-lag time-lock stimulant	time-loan demolish	tumult dimly	timeless dome-light	time-limit etymologist
136	time-sheet admission	time-chart automation	tam-o-shanter atom-age	damage Edam-cheese	demijohn estimation	dumb-show steamship
137	tomahawk tummyache democrat	tomcat taming atomic	team-captain timing stomach	time-card teeming	timekeeper demagogue	tommy-gun demigod
138	tomfool duumvirate	time-fuze hit-movie	time-value steamfitter	team-foul	time-off	dumbfounded
139	tomboy template tombolo dumbbell	temper team-play thimble dump	temperature team-boat thump automobile	temperance timber tumble stamp	tempest timpani damp stump	temple tympan dimple

140	tricycle Thursday dress address stress	tea-rose trace dresser atrocit	thrice throes dressing authoress	torso tress drizzle waitress	terrace trews drowsy otherwise	thirst truce duress storehouse
141	tart trade truth threat dirt iterate straight Darth	tardy trait turtle throat dread outright stratagem	territory triton third thyroid drought yesterday street	tread treaty thirty dart druid Saturday stride	treadle trident thirteen dearth adroit start strut	treat trout thread diehard authority strait sturdy
142	train trance turnip drink attorney strain	trainee translation tyrant drown eternal	thorn transport darn drunk outrun	throne trench drain dryness utterance	torrent turn drench adherent astronaut	terrain tourney dirndl adorn historian
143	tearoom tramp theorem dram stream	term trampoline turmoil drome streamer	terminal tremble diorama dormer uttermost	thermometer trim drama dormitory watermelon	torment trombone dream drum watermark	tram trumpet dermatology dramamine
144	terrier dreary water-rat	terror dryer water-right	trier dry-run	darer adorer	dearer outerwear	drawer waterer

145	trail trolley darling water-lily Waterloo	trial twirl derail starling	trawl truly drill astrologer	thrill truelove droll sterile	trellis tarheel door-lock sterling	trowel trilogy water-hole stroll
146	trash treachery drudge outrage attrition	tragedy treasure duration ostrich	torch tear-sheet adoration starch	thrash dredge atrocious storage	thrush derision authorship stretch	traject dirigible hydrogen sturgeon
147	truck turkey direct during attract strict historical	track target doorkeeper director staircase string	tractor turk drag dreg stark strong	tract throng dragon dragnet streak structure	trick dark drawing drake strength stroke	tricolor daring drug dirk strike struggle
148	turf thrive trove drove waterfall	trophy traffic trough draught strive	tariff travel drivel derive strafe	terrific trifle draft dwarf weather-vane	terrify truffle drift atrophy	thrift tearful drive hydrophobia
149	tarpaulin throb troop drab durable strawberry	tripod torpedo troupe drape derby strip	trap trip trouble drawback adorable stripe	trapeze tribe turbine drip attribute water-boy	treble tribunal turbot droop strap waterproof	terrible triple tribute drop stirrup

150	tails tollhouse idealize	tales delusive idolize	tools dollhouse headless	tiles doilies hatless	tallies dailies outlast	telescope atlas utilize
151	toilet toehold doldrums idolatry	telltale daylight dolt utility	tilt delight adult withhold	twilight delude adultery outlet	teletype dilate athlete stealth	too-late dilute etiolated
152	tail-end DEW-Line idleness	talon delineate Italian	toluene delinquent outline	towline headline stillness	talent hot-line Stalin	dalliance headland
153	tollman thallium hoodlum	teleman dalmatian stalemate	telemark dilemma settlement	toolmaker dolomite	tallyman head-lamp	Talmud hotelman
154	tailor dealer yodeler	tiller dialer settler	tolerate dollar stellar	tailer dueler stealer	teller hotel-room	toolroom idler
155	telelens teleology styleless	tall-oil day	taillight lily	telial Dalai-Lama	tileless stellular	tallowless still-life
156	tail-shaft delicious etiology	tool-shed deluge stylish	tallish delusion	tillage diligence	tollage dilution	theologian adulation
157	telegram dealings headlong	tailgate delegate outlook	toll-call delicacy wedlock	telling dwelling	tollgate dialect	talc dialogue
158	telephone deliver	television doleful	tail-fin dolphin	twelve Delft	tell-off dollface	delve outlive
159	tulip tallboy dilapidate	tailpiece tollbooth dollop	tholepin toolbox doll-up	tilbury talebearer ad-lib	tailpipe day-laborer	telepathy deliberate

160	tea-chest audacious	touchstone headcheese	touch-system	digest	dishes	duchess
161	touchwood dashed hotshot	touchdown dodged whitewashed	touch-type dish-towel	digit dishwater	ditched ditchdigger	dished attached
162	tuition audition	teach-in edition	tee-joint outshine	dudgeon station	Dutch-uncle stagehand	addition hesitation
163	Taj-Mahal	touch-me-not	touchmark	Dutchman	attachment	stage-manager
164	teacher autogiro	T-shirt etagere	dasher wheat-germ	dodger	dowager	de-jure
165	touchline	touchhole	Dutch-elm	dash-light	Dutch-light	
166	touch-watch	dishwasher	dodge-chain	Dutch-cheese	head-judge	
167	thatch-grass hatcheck	teaching woodchuck	touching staging	dashing stagecoach	dodging dashiki	deject
168	touch-off wheat-chaff	Dutch-oven stage-fright	Dutch-wife	dash-off	disheveled	dishful
169	tissue-paper dish-up	toy-shop	touchback	touch-up	dodge-ball	odd-job

170	taxi things doghouse	tax tea dogs	Texas cozy attics	text decks ethics	textile dachshund outcast	tongs dexterity suitcase
171	teakettle teakwood dictate edict	tact tag-day decathlon etiquette	thicket decadent doctor educator	ticktack decade ductile tactic	ticket decode dogwood tactical	together docket adequate
172	token technical	tea-wagon toucan	tycoon deacon	taken decanter	thicken dignity	thickness stagnant
173	thingumajig degum	Tecumseh decamp	autogamy day-camp	decompose stigma	document	dogma
174	tiger decree dacron outgrow	ticker decry doggerel stagger	tea-garden degree autograph stoker	dagger degrade autocar stacker	decorate digress attacker	decrease digger outcry
175	tackle tequila decal	tangle toggle ducal	tickle dangle stockholder	tingle declaim	tongue-lash declare	tag-line decline
176	tuck-shop dog-show	take-issue eduction	dictionary education	dockage	doggish	dogwatch
177	tea-cake attacking	tacking outgoing	tagging hot-cake	decaying sticking	digging stocking	dogging stock-exchange
178	takeoff dog-food stockfish	tick-off dogfoot	tick-fever duckfooted	dogface hot-coffee	dogfight wedding-vow	dogfish outgiving
179	teacup hiding-place	take-up stickup	toe-cap stockbroker	dig-up	decapitate	decoupage

180	two-faced devastate advise	two-fisted deficit edifice	two-phase device whiteface	thieves diffuse	typhus divest	deface dovehouse
181	taffeta deft devote hotfoot	theft davit devout outfit	Tophet defeat diphtheria outvote	typhoid daffodil divide stevedore	tuft David deviate eightfooter	daft devoid diphthong
182	tiffany defiant advance	typhoon define advantage	toughness dauphin	tiffin divan	deafen divine	defense advent
183	tea-family	tough-minded	TV-man	deafmute	defame	
184	tavern defraud diverse	taffrail defray divorce	tovarich devour defrost	thievery diaphragm deaf-ear	defer differ adverse	deform diver advertisement
185	tivoli deflate outfield	tough-luck develop outflow	twofold devil white-elephant	toyful duffel youthful	defalcation hatful stifle	defile hateful wistful
186	TV-show diffusion	thievish division	deficiency audiovisual	deviation whitefish	devotion hot-fudge	dovish
187	tough-guy edification	de-facto staffing	defect stuffing	difficult	diving	advocate
188	two-fifths	TV-fan	thief-vault	dive-off	eighty-five	stave-off
189	taffy-pull	tough-boy	dive-bomber	edifiable	stovepipe	stove-pot

190	topsail tapestry types headpiece	top-sergeant tipsy debase outpace	top-secret tips deposit	topside tops dubious	topsoil tubes autobus	topsy-turvy tubs autopsy
191	teapot towpath debutant outbid	tepid two-bit adapt stupid	tiptoe debate adept	top-hat debit adopt	top-dog depth output	topdrawer deputy hotbed
192	tiepin deepen headpin	topknot debonair outbound	topnotch depend headband	thighbone depone	twopence Dubonnet	debenture Ethiopian
193	topman	topmast	topmost	top-milk	stepmother	topminnow
194	tie-bar topper depart depress sideboard	tea-party topwork dapper deprive sideburns	taper top-round debris dipper stubborn	tapir top-rate department diaper	taproom daybreak deportment outboard	typewriter debar depreciate outbreak
195	table tupelo double oddball	tablet two-ply duplicate stable	tableau dapple doublet steeple	tipple deplore diabolic stipulate	topple diploma audible	topless diplomat edible
196	tip-sheet adoption	top-sheet adaption	top-shelf stoppage	two-page	type-wash	debauch
197	tea-bag tobacco depict	tapping toboggan dipping	topping topic debug	typing typical autobiography	topcoat typograph hatbox	topkick debacle stopping
198	two-by-four deep-felt	tip-off deepfreeze	topflight stepfather	top-heavy step-off	typify stupefy	typefounder stopover
199	top-banana depopulate	top-billing dope-peddler	top-boots dope-pusher	wet-pipe wastepaper	white-poppy hot-pepper	white-paper

200	necessity incessant census	nieces unceasing	noses unseasoned	noises unsuspicious	incisor ounces	insist gnosis
201	nest honest instead unsuitable	nasty incident instinct gnostic	nicety incite institute one-step	nostril inside instrument Wednesday	nose-dive insight unsatisfactory	anesthesia instant unsteady
202	newshen ensnare uneasiness	nice-nelly incinerator unseen	niacin innocent unsound	nosiness insane unison	nuisance insensitive unessential	ensign insincere
203	newsman hansom unassuming	noisemaker inasmuch unsimilar	news-media insomnia	nizam in-sum	noisome insemination	enzyme unseemly
204	newsreel insurgent censor	newsworthy insurmountable	answer insurrection	encircle uncertain	incertitude unsworn	insert sincere
205	nacelle nicely insult Han Solo	nozzle enslave ancillary	nuzzle insolence oneself	nestle insolvent unselfish	nasal insulin wine-cellar	noiseless insular senseless
206	news-agency	nose-job	incision	ionization	unsociable	sensation
207	nose-cone insecure	nosegay insignificant	encyclopedia unicycle	honeysuckle unscrupulous	inscription wainscot	insect
208	news-vendor uncivil	henceforth unsafe	insufferable UNICEF	insufficient	once-over	ionosphere
209	newsboy inseparable unspent	nosepiece insipid sensible	newsprint inspect	no-soap inspiration	newspaper insuperable	inhospitable insupportable

210	notice anticipate induce undisturbed	Nazi antiseptic industry Ents	nowadays enthusiasm hind-sight	nudist entice handsaw	no-dice indecent undeserved	antacid indistinct undesirable
211	nitwit annotate handout untied	nudity antidote indeed undated	night-duty entity knighthood want-ad	noted entitle undoubted	needed handed untidy	antitrust haunted united
212	andante handiness intense sentence	antenna entwine intonate sentinel	Anthony inattentive one-to-one centennial	antonym indent undeniable	india-ink Indian unthankful	antiknock intend wanton
213	nutmeg anathema intimidate on-time	nightmare antimissile handyman onetime	antimatter endemic handmaiden anytime	anthem inadmissible handmade untimely	anadem indemnify honeydew-melon windmill	anatomy intimacy ointment
214	network nutriment anthracite entertain hinterland interval untiring	neither nitric anteroom entrance interact interview winter	Netherlands nitrate endear entry interest introduce wonder	nodder nightrobe endorse handrail interior under	neutral another endure handwriting intern Unitarian	notary anterior enter hundred international unit-rule
215	needle anthill intellect	needless endless intelligent	noodle handle intolerable	night-owl indelicate know-it-all	new-deal indolent until	antelope indulge windless
216	nightshade indigenous window-shopping	night-watch indigestion sandwich	notation intuition	nutshell untouchable	annotation windowshade	antechamber wantage
217	nothing antagonist handicraft indigo untangle	nightcap antichrist hunting indignant winding	nightgown antics handcuff induction wanting	nautical antique handicap intact syndicate	nightingale anything inadequate integrity	nutcracker ending index intoxicated
218	native antiphony undeveloped	nightfall inadvisable undefeated	notification indifferent scientific	endeavor individual	endive indefinite	handful undefined
219	notebook antipathy handball windpipe	notable antipode inaudible sandbox	night-pay antipope independent sound-box	antibiotics handbag inedible	antibody handbill knee-deep	antipasto handbook knotty-pine

220	nonce annoyance	nonsense enhance	nonuse onions	nainsook onionskin	ananas unanswered	announce
221	noontime anoint union-dues	ninth innuendo unknit	nineteen know-nothing	ninety unintelligible	nondenominational unintentional	nontechnical unwanted
222	ninon unknown	no-nonsense unannounced	nonunion	nonnegotiable	nonentity	non-owner
223	ninnyhammer nonmilitary synonymous	noon-meal nonemergency	nonemotional anonymous	nonmetal inanimate	nonmember unanimous	nonmedical unanimated
224	nunnery unhonored	nonracial	nonradical	onion-ring	union-organizer	unenrolled
225	nonliquid unenlarged	nonliterary unanalyzed	nonelect union-hall	nonallied union-labor	nonelastic union-leader	unenlightened son-in-law
226	nonchalant union-jack	nonjuror union-shop	nonage uninitiated	knee-injury	uninjured	uninsured
227	nincompoop nonacceptance unincorporated	nonagon nonactive	nankeen nonaggressive	non-com nonequal	nannygoat nonexclusive	nonconformist unknowing
228	nine-footer nonavailable union-official	nonviolence unenviable Nineveh	nonfat unenforcible	nonvoting uninventive	nonfeasance uninvited	nonferrous uninformed
229	ninepins nonplus nonpolitical	nonabsorbent nonpros union-pay	nonbeliever nonpartisan	nonbreakable nonoperative	nonpaying nonprofessional	nonpareil nonprofit

230	names enemies	namesake gnomes	nemesis unmistakable	numismatist unmask	animosity	inmost
231	nomad inmate	named pneumatic	new-math	name-dropper	animate	enmity
232	nominal unmanly	nominee unmannerly	new-moon unmentionable	numbness unmindful	honeymoon unwomanly	inhuman pneumonia
233	name-maker	new-member	unmaimed	unmemorized	anemometer	unmomentous
234	namer enumerate	Nimrod unmarred	numeral unmarked	numerology unmerciful	newmarket unmarried	enamor un-American
235	nameless	numbly	animal	enamel	anomaly	pneumology
236	animation	unemotional	unimaginative	unmatched	unmeshed	
237	naming	anemic	inimical	unmake	winemaker	
238	nymph	unemphatic	unmovable	nemophila	unmiffed	unmuffled
239	nameplate unimproved	nimble unimpressive	number unambiguous	unemployed unamiable	unimportant unhampered	unimpaired snowmobile

240	nurse owners	nursery unrest	neurosis unhorse	nearsighted sonorous	honors sunrise	onerous
241	narrator inheritance unredeemed	neurotic inroad unworthy	nard inward unwritten	north onward	inarticulate unearth	inert unhurt
242	no-iron unworn	no-run unwarned	neuron unwarranted	nearness	narrowness	unearned
243	norm narrow-minded	normal unarmed	near-miss innermost	Norma	Norman	enormous
244	nearer	narrower	honorary	unrewarded		
245	narwhal knurl unroyal	narrowly one-reel snarl	nearly unrelenting	New-World unreliable	enroll unruly	gnarl unreal
246	narration inertia	nourishment onrush	Norwegian ownership	energy	enrage	enrich
247	narcotics honoring	nark unrecorded	Newark unrequited	New-York unerring	anarchy unrecoverable	on-record
248	nerve unrefined	nirvana unruffled	no-refund	enervate	unravel	unrivaled
249	nearby unripe	enrapt unrippled	enrobe unwrap	enwrap	honorable	unrepentant

250	nails enlist	nelson in-laws	nihilist unlace	annals unless	analyze unwholesome	awnless
251	newlywed inlet unload	nailed inhaled unlit	annihilate unhealthy knelt	annulled unallowed	enlighten unallotted	inalterable unladylike
252	nylon inalienable	nail	enamel	aniline	inland	on-line
253	newly-made	annulment	unlimited	unilluminated	unlamented	
254	nailer	enlargement	inhaler	kneeler	unlearned	unalarmed
255	nailless	nail-hole	nilly-willy	unloyal	Honolulu	
256	knowledge	analgesic	analogy	ineligible	unlatch	unleash
257	nailing unlock	kneeling unlucky	no-luck unwelcome	new-look unwilling	onlooker unallocated	unlike unlooked-for
258	nail-file on-leave	New-Left unlawful	nullify unlive	alphabet unloved	enliven	in-love
259	nail-biting unliable	nail-polish inhalable	nail-up unallowable	nol-pros unlabeled	analeptic unlabored	unhelpful

260	nauseous injustice	niches unjust	notches Natchez	nudges	hinges	inches
261	nidget one-shot	notched unshod	nudged unshut	gnashed initiated	enjoyed unwashed	inched unwashed
262	nation enjoin ungenerous	notion ingenue unchanged	ancient ingenious unchained	enchant injunction	engine knee-jointed	engineer ungentle
263	notchmark	enjoyment	inchmeal	unashamed		
264	nature insurance century	notcher knee-jerk	nudger onager	ensure on-shore	enshrine unshrinkable	injury unsure
265	enchilada unusual	initial	unchallenged	unchilled	unshielded	unsheltered
266	hinge-joint	unjudged	un-Jewish			
267	nudging unshackle	gnashing	enjoying	inject	unchecked	unshaken
268	anchovy unchivalrous	in-a-jiffy unchafable	unshaven	unshifted	unshuffled	unshoveled
269	hunchback wineshop	enjoyable	unshapely	unship	unchaperoned	unwashable

270	negus inaccessible inquest snacks	next inexcusable unaccustomed	nexus inexpensive unexpected	knocks inks unexplored	annex inexperience unquestioned	encase innocuous Yankees
271	necktie nicotine iniquity uncaught	naked anecdote honky-tonk	negative enact hunky-dory	nocturnal inequitable knockout	nugget inquietude uncut	nectar inactive ungodly
272	nickname inconceivable inconvertible	knickknack incongruous unacquainted	noggin inconsiderate unconcerned	knock-knee inconsistent unkind	encounter inconsolable sunken	henequen inconvenience
273	newcomer honeycomb incumbent	encamp income uncomfortable	encomium incomparable oncoming	encumber incompatible unicum	enigma incompetent unkempt	encompass incomplete
274	nacre Niagara engrave incorrect knocker	nagger nicker hunker increase ungraceful	neckerchief niggard inaccurate incur unguarded	Negro anchor inaugural inquire unicorn	neck-rein encore incarnate knackwurst winker	necrology encourage incorporate knickerbockers winegrower
275	nickel no-cal include uncle	necklace nucleus inequality unequal	neckline ankle inkling wine-cooler	neglect enclose inoculate wineglass	negligee incalculable knuckle	niggle incline unclaimed
276	negation encage	negotiate engage	nicotiana inaction	noxious incautious	anguish unction	anxious
277	nagging ongoing	necking ungag	nogging winking	honey-cake sinking	inking synagogue	knocking
278	no-cavity unequivocal	no-caf	encage	knock-free	knock-off	uncover
279	hanky-panky knockabout	incapable uncouple	innkeeper unequipped	incubate unoccupied	inkpot	kneecap

280	naves infuse knaves	novice invest unfasten	nephews investigate	nevus invisible	envious invoice	infest knives
281	naphtha infidel unfadable	neophyte invade unfit	nifty innovate	no-fat invidious	Nevada invite	inevitable unavoidable
282	novena invent unfounded	newfound inoffensive unwoven	no-fun invincible	infant uneven	infantry uneventful	infinite unfinished
283	navy-man	November	infamous	one-family	unfamiliar	
284	nefarious enfranchise invariable unfortunate unversed	nephritis environ invert unfurnished	never infer knavery uniform	nouveau-riche infirm unfair universe	anniversary inform unforeseen university	enforce infringe unforgettable unvaried
285	navel inflamm inflow unavailable	naval infield invalid unfilled	novel inflate invaluable unflattering	anvil inflict involuntary unfold	envelope influence involve univalve	infallible influenza invulnerable unveil
286	new-fashion infatuate unfashionable	navy-ship innovation	novation invasion	envision knavish	inefficient knife-edge	infusion unofficial
287	navigator invoke	novocaine unaffected	ineffective Univac	infect	invective	invigorate
288	navy-wife	any-five	in-view-of	knife-file	unfavorable	
289	navy-bean unifiable	navy-brass	enfeeble	enviable	unevaporated	unfabricated

290	nabs knapsack	naps knobs	nibs unbiased	nips unobserved	NBC unobscured	nubs unopposed
291	nobody inept unbutton	no-bid inhabit unobtrusive	nepotism inhibit unhoped	Neptune input unpaid	anybody knapweed unpatriotic	inapt unapt sauna-bath
292	nepenthe one-by-one snub-nosed	Nippon unbeknownst	nubbin unbind	henbane unbend	inbound unpin	kneepan unopened
293	napalm	niobium	honey-palm	one-upmanship	wine-palm	sunbeam
294	napper inebriated unprepared	neighbor inborn unpromising	napery unbearable unproved	newborn unbroken unprovoked	inappreciable unburden unpure	inopportune unparalleled
295	nibble Naples inapplicable	nipple Napoleon unable	nebulous Hannibal unbelief	niblick Nobel unbolt	nobleman enable unbalanced	nubile inability unpleasant
296	nuptials	honey-beige	one-page	inhibition	unabashed	snapshot
297	napkin Winnipeg	nipping unbuckle	henpecked	knobkerrie	unbecoming	unpack
298	napiform unbaffled	unpaved	unbefitting	unbeveled	unbehaved	unhopeful
299	nabob	nip-up	unbiblical	unpayable	unpopular	unpublished

300	masseuse muses	mesas Messias	masses Mississippi	misses Moses	misuse	mosses
301	mast mister must homestead	master mistral moustache homicide	masticate mistrial mustard home-study	misdeed mistrust muster Mae-West	mist moist mystery	mistake most hamster
302	mason misnomer	messenger misunderstand	mezzanine mizzen	misanthrope muezzin	misinterpret Amazon	misinformed Samson
303	museum amazement	messmate amusement	miasma	mesmerize	mismanagement	mismatch
304	masseur misericord	miser amuser	miserable emissary	misery Missouri	misrule	miserere
305	missal miscellaneous mussel	missile misology muzzle	measles Moselle himself	mislay Moslem myself	misalliance muslin	mausoleum muscle
306	message misogynist	massage moisture	mischance musician	mischief	misjudge	mischosen
307	mascot misconduct mosque mosaic	mask misgivings mosquito homesick	mascara misgovern muscular amazing	masculine misguided music	masquerade misogamist musk	massacre missing musket
308	misfit hemisphere	massive whomsoever	misfire amusive	missive	misfortune	misfeasance
309	mishap misprint	misplay homo-sapiens	misplace homespun	misapply mass-produced	misbehave	misbelief

310	maids medicine moths	mats midsummer amidst	mates medusa mudslinger	madhouse midsemester immodest	matzo modes	meadows modest
311	method humidity	motet imitate	mediator immediate	Methodist	matador	Mediterranean
312	madonna methane emptiness	maiden median hometown	mitten matinee	madness mutiny	midnight midwinter	meatiness mutton
313	medium meatman	madam hematoma	madman home-team	mathematics sometimes	mad-money	mahatma
314	matron meteor mutter cemetery	material metropolis Madeira symmetry	maternal moderate Mata-Hari	matter modern matrimony	mattress mother humdrum	meter motor humidor
315	medal middling mutilate	meddle model mythology	medial motel	metal module	mettle mottled	middle muddled
316	mod-show mutation	mod-shop home-dish	mediation imitation	amidships	midshipman	modish
317	madcap meeting humdinger	mating meticulous omitting	matting mitigate something	medical modicum	medicare mythical	mediocre mudguard
318	midwife modify	medieval humidifier	metaphysics	metaphor	midfield	motive
319	meatball	made-up	metabolic	mouthpiece	mutable	mudpie

320	manse minus monster ominous	mayonnaise miniskirt monsoon	manslaughter means municipal	mainsail minister amnesty	menace minstrel emancipate	mince monastery immense
321	mint man-trap mentor month amount	maintain maundy mind mountain emanate	Manhattan meantime minute mandolin humanity	manhood man-eater Monday minidress immunity	mandate mend monitor amend womanhood	mantle mental monotonous amenity cement
322	minion mononuclear	manana mononucleosis	manhandle amanuensis	meningitis eminent	Mennonite imminent	manhunt
323	monument monomania	mainmast moneymaker	man-made moneyman	manometer ammonium	manumit homonym	minimum omnium
324	manor minor Monroe	manner minority homeowner	manure monarch	miner monaural	man-hour money-order	mineral monorail
325	manhole moneylender hymnal	mainland meanwhile womanly	mainly monologue	manly moonlight	manual Manila	monolith Emmanuel
326	manager monition omniscience	manger moonshine ammunition	mansion moonshell	mention moonship	menagerie moonshot	miniature munch
327	maniac minicab monkey	mankind mining monogamist	manikin mink moneygrubber	manacle monk Munich	manicure monocle ammoniac	meaning monogram
328	manifest money-flow moon-voyage	manful monophonic munificent	manifold moonfaced omnnificent	maneuver moonfish omnivorous	manufacturer moon-flight	menfolk moon-flower
329	man- money-belt amenable	ape monoplane hymenopteron	manipulate monopoly omnibus	manpower moonbeam omnipotent	minable moon-blind	moneybags myna-bird

330	mammas mimeses	maims mimosa	mayhems momus	memos mummies	memsahib	mimes
331	maimed Mohammedan ohmmeter	mammate Muhammad	mammatocumulus mummy-tomb	mammoth myomata	mayhemmed homemade	mimetic imamate
332	mammon	memento	Miamian	moment	momentum	semimonthly
333	mimamsa	mamamu	mamma-mia	semimemorable		
334	memorial mummer	memory mammer	memoir mammary	memorandum homomorphy	maimer	mimer
335	mammal	my-mail	mamluk	mamelon	hamamelis	mammillary
336	home-mission	home-match	mumchance	mummichog		
337	mammock homemaker	mimic	mimeograph	maiming	mumming	mummy-case
338	Memphis	home-movie	humhum-fabric	mummify	mammiform	
339	mamba memo-pad	mambo mummy-bag	member mumbo-jumbo	mumps	mumble	membrane

340	mercenary Mars	mercer Morse	mercy amerce	morass amorous	morose humorous	morsel immerse
341	mart martyr myrtle	maraud meridian myriad	maritime merit hammer-throw	married mirth homeward	marten mortal smart	martini murder
342	marine morning	mariner mourner	Marianne maharani	marihuana moron	maroon home-run	marionette
343	marmalade merrymakers	marmoset Mormon	mermaid murmur	marmot myriameter	marimba homeroom	merriment
344	mirror	merrier	moorier	marara	hammerer	
345	marl merrily immoral	moral amarillo	morale hammerlock	mural home-rule	marlin humorless	merely emerald
346	march margarine marshal	Martian marchioness merchandise	maharaja marriage emerge	marchpane meerschaum emergency	margin merger mirage	marsh merchant hemorrhage
347	mark mercantile homework	market miracle smirk	marigold mercury	maracas morgue	marksman marque	marquess America
348	marrowfat Morpheus	marvel Moravia	moreover	MIRV	morphine	murphy-bed
349	marble moribund	marabou hammer-beam	mariposa hammerblow	marplot	marrowbone	morbid

350	mails molest	malice aimless	miles homeless	mills	millisecond	maelstrom
351	malt meld muleteer humility simulate	malady melt multiple homiletics simultaneous	milady mild mulatto omelet	mallet military multitude umlaut	melodrama millet emulate smelt	melody mold hamlet smolder
352	MELON hemline	melancholy homeland	milliner Himalayans	million semolina	millennium	malign
353	mailman mule-mark	maim mealymouthed	melamine emolument	millimeter small-minded	millman	muleman
354	molar mailer	miler milord	malaria millwright	millier ameliorate	milliard similar	mealworm
355	may-lily	molehill	milliliter	mill-wheel	melilot	
356	militia mulish	malicious emulsion	mileage humiliation	maladjusted homology	millage	mulch
357	malcontent mollycoddle	mailing molecule	malignant Malaga	malkin amalgamate	milk hemlock	milligram homologous
358	mellophone mellifluous mollify	malevolent milee-feuille homelife	malefactor millefleurs	malfeasance millfeed	malformed millefiore	malfunction mule-foot
359	mailbag malapert	mail-boat malaprop	mail-pouch mulberry	mailbox muleback	malleable smallpox	melba

360	magistrate	majesty	majuscule	matches	images	
361	machete	matchwood	mashed	midget	meshed	emaciate
362	machine	mission	motion	magenta	mushiness	emotion
	imagination	homogenous	omission			
363	matchmaker	matchmark	mishmash	mushmelon	MGM	
364	major	majority	mature	measure	majorette	masher
	moocher	mushroom	meshwork	homager	imagery	
365	majolica	Magellan	matchless	matchlock	matchholder	mutual
366	magician	muchacha				
367	magic	mashing	meshing	matching	Michigan	
368	midge-fly	home-chef	semishift			
369	matchable	matchbook	matchbox	matchboard	match-up	mushball

370	macassar mix	maccus mucus	magazine mugs	maxim amongst	megacycle hammocks	mikes
371	maquette mocked	maggot mugged	macadam	megaton	makedo	mikado
372	magnet magnitude	magnate mahogany	mackintosh magnolia	magnesium mechanic	magnanimous mackinaw	magnificent
373	magma	mugwump	homecoming	home-game	homogamy	
374	macaroon microscope immigrant	mackerel mockery homecraft	maker mongrel homegrown	make-work muckraker	meager mugger	microbe emigrant
375	mackle amical	mangle immaculate	mingle semigloss	Mogul smuggle	Michael	meekly
376	makeshift	mug-shot	mawkish			
377	making	mocking	mugging	mucking	smacking	smoking
378	megaphone	make-off	makefast	make-over	Machiavellian	mugful
379	magpie hummingbird	make-believe Yom-Kippur	makeup amicable	Maccabee	megapolis	mock-up

380	mavis emphysema	movies ham-fisted	moves home	muffs office	Mephisto	emphasis
381	moviedom emphatic	moved	miffed	mufti	amphetamine	amphitheater
382	muffin	home	phone	homophony	home-fun	semifinal
383	moviemaker	moveman	movement	amphima-cer	amphimixis	
384	Mayfair samovar	mover mavourneen	maverick myophore	amphora semaphore	hamfare	whomever
385	mayflower homefelt	mayfly	movieland	moveless	muffler	hemophiliac
386	mayfish	movie-show	home-voyage	semiofficial		
387	maffick	moviegoer	moving	movie-camera	home-viewing	
388	movie-fan	Mafia-family	move-off	move-over		
389	movable	movie-plot	move-up	amphibious	amphipod	amphibole

390	maps emboss impossible	mobster embosom impostor	ambassador home-base symposium	ambuscade impasse	embassy impassive	embezzle impose
391	moppet empathy ombudsman	ambidextrous impediment wombat	amputate impudent symptom	embitter impute sympathy	embody impetus somebody	embed homebody
392	ambient impinge	embankment impound	impanel impugn	impend impunity	impenetrable homebound	impenitent sampan
393	map-maker	embalm	empyema	wampum		
394	mapper embrace emperor impart impress umbrella	mayberry ember empress imperative imprint sombrero	moper embroider hamburger imperfect imprison	amber embroil hamper imperial improper	embark empire homburg impertinent improve	embarrass empower impair import impure
395	maple amplify humble impolite semblance	mobility ampul impel impala symbol	maypole embellish implement impulse assembly	ambulance emblem implicate umbilical	amiable employ implore sample	ample home-plate imply simple
396	ambush impeach	ambition	impatient	impassionate	impetuous	impish
397	mobcap humbug	moping hymnbook	mobbing impact	mopping	myopic	ambiguous
398	ambivalent	ambivert	amebiform	impavid	impoverished	swamp-fever
399	maypop	mopboard	mop-up	humpback	imbibe	impubic

400	racist irresistible	recess warehouses	resist	raises	roses	horses
401	receipt restrict airstrip worst	recital roast arrest wrest	residual roost erst	rest roster hirsute	restore rust wrest	restrain rustic wrist
402	raisin resign hoarseness	reason resound orison	resin arsenal war-zone	recent arson Arizona	resent arsenic	rescind horizon
403	reassemble horseman	raceme oarsman	razzmatazz warehouseman	resemble wearisome	resume	heroism
404	racehorse resort	racer resource	razor eraser	reassert horse-race	research horseradish	reserve
405	razzle roselike wrestle	resale rosella	resolute rustle	resolve herself	result ourselves	roseleaf yourself
406	recession	rescission	rose-cheeked	rose-show	horseshoe	
407	rascal rose-cut harassing	racecourse Rosicrucian	rescue rusk	racing rye-whiskey	rising warehousing	risk arousing
408	receiver horseflesh	rosefish	horsefece	horsefeathers	horsefish	horsefly
409	rasp reciprocal responsible	raspberry respect airspace	receptacle respiration horseback	reception respite horsepower	recipe resplendent horsewhip	recipient respond irascible

410	radius Rhodes	raticide ritzy	reduce arduous	righteous artisan	roadster artist	roads yardstick
411	radiate redwood aridity certitude	rat-a-tat redoubt hardwood	red-hot rotate hardhead	redoubtable ruttet hardtop	redhead erudite heredity	redtop airtight irritate
412	rattan red-neck routine warden	radiant red-nose ardent	readiness roadnet earthen	redness rotten harden	retain ruddiness hearten	retinue rudeness ordain
413	radioman rhythm	radium rudiments	radome yardman	ready-made	redeem	roadman
414	radar retard retrieve rudder orator	rather retire return air-to-air order	reader retort rider ardor wardrobe	raider retrace rioter artery aerodrome	redress retract rotary hairdresser writer	reiterate retreat Rotarian hoarder
415	ratline redleg airedale heartland	rattle retail artless hurdle	radial retaliate earthling hurtle	readily retell hardly ordeal	redial riddle heartily whortleberry	redolent ruthless heartless
416	radish hardship	radiation heritage	retouch hard-shell	ruttish irritation	artichoke yardage	erudition road-show
417	radioactive redcap article writing	radiocast red-carpet articulate surtax	radiograph redcoat earthquake	radical red-oak erratic	reading ridicule heartache	redact riding wording
418	radiophoto reedfish hurtful	radio artful write-off	wave artifact certify	ratfish artificial	ratify heartfelt	redfin hors-d-oeuvre
419	ratable redouble hartebeest	rataplan rutabaga irritable	ratproof air-tube yardbird	redback heartbeat wiretap	redberry heartbreak	redbreast hardpan

420	rains reinstates harness soreness	rancid renews irons	ransack rhinoceros ironsides	ransom rinse weariness	reigns ruins urns	reinsert earnest Uranus
421	rand reenter rondeau around ornate	rant reindeer rondo errand warrant	random render round errant worn-out	rainy-day rent rundown hairnet surrender	rain-out reunite runt hornet surround	raindrop rind aeronaut orient
422	rayonnant	renounce	renown	reunion	run-in	ironhanded
423	rainmaker ornament	reanimate uranium	rename surname	renominate	renumerate	ironmonger
424	rainwear iron-ore	renewer ironworks	ruiner ornery	runner warner	earner	ironer
425	rainless	renewal	run-well	one-reel	unreal	
426	ranch renege	range arrange	rainwash orange	rain-check wrench	reenjoy	reinsurance
427	rank earnings	rancor ironclad	raining ironic	rink ironing	running warning	raincoat wrinkle
428	rainfall reinvest	rainfrog run-off	rainful Herrenvolk	aeronaval	reinforce	renovate
429	rainbow hornblende	rainpool hornbook	rainproof hornpipe	runabout	runup	hornbill

430	rams armies	reams armistice	rooms airmass	remiss harems	rhymes surmise	arms
431	remedy armada Harry Mudd	remit aromatic	remodel armed	remote eremite	rheumatism hermit	roomette warmth
432	raiment remunerate Armenian surmount	remain Roman ermine	remind romantic harmony	reminisce Romania hormone	remnant ruminant ceremony	remonstrate airman sermon
433	remember	rememorate	roommate	rum-mill	armament	
434	rammer roomer	ramrod rumor	remark rumrunner	remorse armor	rhymers armory	roamer warmer
435	remilitarize armhole armlock	rimland armlet	ramulous harmless	airmail ormolu	air-mile warmly	armless armload
436	ramjet	ramshackle	rematch	remission	rummage	armchair
437	remake arming	rhyming harming	roaming warmonger	rooming	Armageddon	armguard
438	ramify harmful	reemphasize	removal	roomful	armful	earmuff
439	ramp reimburse rambunctious	rampart rhombus rambutan	ramble rhumba armpit	rampage romp warm-up	reemploy rumble	Rembrandt rumpus

440	rehearsal warriors	roars	arrears	errors	horrors	warhorse
441	rarity reward	reared reword	reread rewrite	reredos roared	reorder Ararat	reroute arrowroot
442	rear-window war-horn	rearrange warworn	rerun	rewarned	reworn	rareness
443	rearmament	reremouse	rearmost	rewam	earworm	wireworm
444	rare-earth rewirer	rarer roarer	rareripe	rere-arch	rearhorse	rearward
445	rarely	rear-alley	reroll	rerail	rural	war-rally
446	raree-show	rear-echelon	rerush	reration	heroworship	arrearage
447	reargue rework	rear-guard rehearing	reorganize earring	rearing hierarchy	roaring	rewiring
448	rara-avis	rear-fanged	rearview	rarefy	errorfree	
449	rarebit	re-orbit	roorback	wire-rope		

450	rails hairless	realize orioles	release wireless	realest	realist	airless
451	reality roulette hurled	realty royalty world	reallot air-letter	relative air-light	rolled harlot	roulade herald
452	realign airland sirloin	relent airline	reliance earliness	relinquish Ireland	reloan orlon	roll-on whirlwind
453	railman heirloom	realm	relumine	rollman	rollmops	Harlem
454	railroad ruler	raillery	rallier	reeler	reelrall	roller
455	railwayless	roleless	royal-law	royal-yellow	ruleless	
456	railage earlship	reallege horology	reeligible	relation	religion	relish
457	railing relocate harlequin	reelect roll-call oarlock	relax rollicking warlike	relegate rolling whirligig	relic hair-lock yearling	reluctant hireling yearlong
458	railfan airlift	relevant werewolf	relief	relieve	relive	roll-off
459	railbird earlobe	reliable harelip	relapse hurly-burly	rollback orlop	roly-poly whirlpool	earlap

460	rages ridges	ratios righteous	regisseur rushes	register arches	rejoice	riches
461	ratchet archdiocese airsheet	recheat arched	reshod earshot	rigid urged	reached archduke	rushed wretched
462	reagent richness origin	ration Russian urchin	regent archenemy urgency	regenerate Argentina surgeon	region erosion assertion	rejoin Eurasian
463	regime	regiment	Rushmore	hair-shampoo	Irishman	
464	rasher archer searcher	richer harsher surgery	reassure erasure	Roger orchard	rusher urger	rush-hour surcharge
465	racial ear-shell	Richelieu harshly	richly searchlight	ritual	rushlight	archlute
466	rejudge	Rosh-Hashanah	rush-job	arch-joint		
467	raging air-check	reaching urging	recheck	reject	reshake	rushing
468	rechauffe arch-foe	reshave arch-wife	reshuffle archfiend	rejuvenate Irish-ivy	rush-off	rye-chaff
469	reshape worship	reship	airship	archbishop	hairsheep	warship

470	racks requisite orgasm	rags ruckus works	recast arcs wrecks	request heroics circus	raucous irksome sarcasm	rex orchestra
471	racket requite arcade circuit	ragged rickets arctic	ragtime rocket architect	react regatta erect	rectangle rigadoon irrigate	rector rugged haircut
472	raccoon rekindle hurricane	reckon air-gun organ	reconcile arcane Oregon	reconsider archangel	reconstruct arrogance	regain hearken
473	ragman requiem circumstance	ragamuffin rigmarole	recommend argument	recompense origami	recommit war-game	recumbent workman
474	raker regard aircrew	record regret hara-kiri	recourse require war-cry	recreation rigor warcraft	recruit rocker worker	recur aircraft
475	raglan recoil ringleader wiggler	rakehell recollect air-cooled oracle	recall regular argali circle	reckless regalia argyle	reclaim recluse hiring-hall	recline row-galley hourglass
476	reaction erection	rickshaw irrigation	ricochet workshop	roguish wreckage	air-coach	air-gauge
477	raking rococo	recognize archaic	recook arguing	rigging working	ringing	rocking
478	recover	rockfall	rock-fill	Roquefort	rockfish	archives
479	recap rock-bottom	recapitulation rugby	recuperate archipelago	rockabye ark-boat	rockberry herringbone	rockbird arquebus

480	refuse orifice	reviews Orpheus	revise wharves	revisit war-office	airwaves service	harvest surface
481	raft roughdry	refit arrived	rift hereafter	rivet horrified	roofed war-veteran	rooftop servitude
482	raven roughness	ravine ruffian	refine earphone	revenge orphan	revenue wharfinger	roughneck servant
483	revamp	refumble	Orpheum	war-fame	wharfmaster	
484	reefer refrain river	refer refresh rover	reform refrigerator roughrider	referee refurbished wherever	referendum reverse surveyor	reverend revert
485	raffle reveal revulsion airfield	ravioli revel rifle airflow	refill revolt rival arrival	reflect revolve rivulet oriflamme	reflux revolution rueful servile	revalue revolver ruffle
486	ravage roughshod	ravish oarfish	refashion wharfage	refuge	revision	roughage
487	revocation	raving	roofing	horrifying	irrevocable	
488	revival	rough-fish	rough-footed	wharf-fish	survivor	
489	rev-up	reviewable	refabricate	roofable	rough-up	wharf-boat

490	rabies rhapsody arabesque	repast robes hairpiece	repose ropes harps	repost airbase herbs	rebus airbus surpass	robust Arabs
491	rabbit rebuttal rubytail	rabid reptile wrapped	rapid repute arbiter	rapt robot orbit	rebate rowboat whereabouts	repeat rubdown acerbity
492	rapine robin whereupon	rebound ruby-wine warbonnet	reopen hairpin serpent	repent harpoon	ribbon European	ripen urban
493	repayment	air-boom	robomb	europium	herbwoman	war-poem
494	rapier repair reprieve rhubarb arbor cerebrum	rapper report reprimand robber harbor	rapport repartee reproach rob-Toy harebrained	rapparee reprehend reprobate roper wrapper	reappear represent reproof rubber surprise	reaper repress ribroast airport Cerberus
495	rabble replace repulse horrible	rape-oil replant ripple	rebel replenish rubble	rebuild replete ruble	repeal replica rubella	repel reply airplane
496	rapacious eruption	rapture harp-shell	rubbish herbage	rupture	repatch	arpeggio
497	rebuke rubicund	repugnance Arabic	repack Areopagus	roebuck harbinger	rope-key wrapping	rubicon yearbook
498	rebuff herbivore	repave	riboflavin	rope-off	rubify	rub-off
499	republic orb-web	republish war-baby	repeople	rip-up	air-pipe	earbob

500	lasses alehouses	lassoes aliases	leases Ulysses	lazy-Susan Alsace	losses	Louis-Seize
501	last lust all-star whilst	lassitude lucid elastic celestial	lawsuit luster elucidate solicit	least lowest holster	lest LSD illustrate	list all-set ulster
502	laziness loosen	lessen lozenge	lesson hallucination	license halcyon	liaison Wilson	listen
503	lissome	lyceum	wholesome	Elysium		
504	lacerate elsewhere	laser illusory	lessor ulcer	lizard	loser	also-ran
505	lazily whole-souled	leasehold Lysol	low-slung	luzula	oil-seal	wholesale
506	loose-jointed	Alsatian	oil-switch	wall-switch	yellow-sage	yellow-sedge
507	lacing	leasing	losing	Alaska	oilskin	woolsack
508	lascivious	laissez-faire	Lucifer	elusive	illusive	
509	lazybones allspice	lesbian	lisp	low-spirited	wellspring	well-spoken

510	lattice loudspeaker waltz	lettuce Lao-Tse	ladies eldest	lads halitosis	lighthouse oldest	lotus holidays
511	latitude altitude wilted	lighted eluded yuletide	loaded halted solidity	la-di-da holdout solitude	low-tide old-time	allotted well-to-do
512	Latin lighten	latent lightning	laydown lowdown	lieutenant oldness	litany old-wine	leaden well-done
513	lithium altimeter seldom	leitmotif allotment	loudmouth illtimed	light-meter ultimate	light-minded yuletide	litmus well-timed
514	ladder letter looter alderman holy-water	lateral leotard lothario altar older	lather literal lottery alter ulterior	latter literature louder elder yielder	leader litter Luther halter	leather loiter altruism holder
515	ladle little	lately wall-to-wall	ladylike wildlife	ladylove wildly	lethal yellowtail	leadless
516	ladyship old-shoe	late-show salutation	latish	Low-Dutch	old-age	oldish
517	leading altogether sliding	latecomer Eolithic	litigant holding	lithograph welding	loading wildcat	ludicrous yielding
518	ladyfinger healthful well-advised	leadoff holdover wildfire	lightface illadvised wildfowl	lightfast oldfangled	lightfingered old-fashioned	light-foot oldwife
519	ladybird let-up	ladybug hilltop	laudable holdback	leadback hold-up	lead-up wildebeest	lead-pipe

520	lance lyonnaise silence	lens alliance Linus	lioness aliens	linseed allowance	lonesome holiness	lunacy illness
521	land laundry alienate wall-unit	lend lentil island well-knit	lent lindy eland cylinder	lint linden Holland assailant	lintel lunatic oleander Lando	lean-to London walnut
522	lenient all-in-one	Lenin hole-in-one	leonine illanun	linen Illinoian	linin wellknown	alanine
523	lineament illinium	lineman	liniment	Holy-Name	alignment	allonym
524	tanner loaner	lanyard loanword	leaner loner	liner lunar	linear Leonardo	lionhearted alienor
525	lanolin lonely	lienal lunule	lineal willy-nilly	line-haul	linoleate	linoleum
526	launch luncheon ill-natured	lounge lunge	lineage lynch	longitude alienation	lingerie elench	lunation elenge
527	lanky loaning	lining loincloth	link low-necked	links lunkhead	linocut lynx	leaning all-inclusive
528	lanuvium well-enough	lenify well-informed	line-firing	line-off	lion-fish	ill-informed
529	lenape loanable	unable loanblend	linebacker alienable	line-up	linebred	linebreed

530	lambs elms	limbs Hallowmas	limousine slums	looms	low-mass	almost
531	lamdan ill-mated	limit well-made	a-la-mode	almighty	elm-tea	helmet
532	lawman limnologist alimony illuminate	layman luminary almanac oilman	lameness low-minded aluminum well-mannered	lament low-man alumnus well-meaning	lemon ailment element whaleman	limen aliment eliminate
533	lamium	limeman	alma-mater	well-memorized		
534	lemur halomorphic	limerick oleomargarine	all-American	allomorph	Hail-Mary	hallmark
535	lamella elemol	lamellate elm-hill	limelight oil-mill	lime-oil	lowmelting	all-male
536	limation ill-matched	lime-ash well-matched	lime-juicer	Limoges	limewash	lomatia
537	lawmaker almicore	lambkill almucantar	lambkin whelming	limekiln salmagundi	lummox	looming
538	loomfixer	lymph	lymphad	well-emphasized		
539	lamp limbo Olympics	lamprey Limburger slumber	limber lumbago	limp lumber	limpid lump	limbus Alhambra

540	larceny hilarious	liars	lawyers	lower-house	walrus	wheelhorse
541	laird lured hilarity	lard laureate well-read	lariat lurid whole-hearted	leeward alert celerity	low-rate all-right salaried	Lord already
542	laryngitis aileron	laurin all-or-none	layer-on hollow-horn	loran well-run	learned well-earned	Lorraine willow-wren
543	larmier lyreman	larryman alarm	lorimer allurement	lormery eelworm	lorum willowworm	lowermost
544	lowerer	lyrurus	allurer	hollerer		
545	laurel	lauryl	lawyerlike	Lorelei	lorilet	Holy-Roller
546	large allergy	largess alurgite	largeness oleraceous	laureation	layerage	lurch
547	lark lower-class	largo lurk	layering lyric	lorica alluring	lorikeet oil-ring	lowercase oil-rock
548	larva	larvule	low-roof	lyreflower	lyriform	
549	larb lyre-back	larboard lyrebird	larrup	layer-up	low-warp	lowerable

550	lawless hula-hulas	lilies oil-wells	lowliest	lulls	lulus	Allhallows
551	lilt well-heeled	lilied well-willed	lily-white ululate	low-yield	loyalty	lulled
552	lillianite	lowland	lowliness	ululant	whale-line	Sally-Lunn
553	law-lamb	lilium	lolium	allelomorph		
554	lowlier	Lollard	well-larded	well-learned	cellular	
555	liliales	lilylike	lily-livered	lily-low	letwel	lowlily
556	lallation	liliaceous	ululation	well-latched		
557	lilac yellowlegs	lolling Yule-log	low-lying soliloquy	lulling	ill-luck	owllike
558	low-level	lowlife	low-lived	well-loved	yellow-livered	all-alive
559	lalapalooza	lilliputian	lollipop	lullaby		

560	latches luscious	lodges elegies	loges eulogist	loggias eyelashes	legislator zoologist	logistics
561	latchet	elegit	legitimate	lodged	alleged	woolshed
562	legend elision	legion elysian	lesion halogen	lotion illusion	allusion solution	elation
563	lodgement	hall-chime	Welshman	eulogium		
564	lasher lushier	ledger Algeria	lecher alleger	leisure well-wisher	lodger wheelchair	lusher
565	lushly	hellishly	oil-shale	owlishly	wellchilled	slouchily
566	ill-judged	all-Jewish	logician	well-judged		
567	latchkey illogical	lodging	logic	lashing	alleging	yellow-jack
568	low-shafted	well-shaven	well-shuffled			
569	awl-shaped	hell-ship	algebra	oil-job	oil-ship	well-shaped

570	laxative locust elixir	laxity low-cost holocaust	legacy log-house	legs likewise	locks lungs	looks elks
571	languid locket elector	liquid lockout electricity	legate lookout hellcat	length low-cut select	locate alley-cat	locked alligator
572	laconic ill-conditioned	lagoon Allegheny	Lackawanna elegance	likeness eloquence	longhand oilcan	well-conditioned silken
573	lagomorph alchemy	legman algometer	legumes illcome	leukemia ill-kempt	ligament welcome	locomotive
574	lacquer logger lucre well-groomed	laggard locker lukewarm well-grown	languor longer lugger	legroom longhair allegorical	linger looker licker	liquor lucrative slugger
575	laical low-calorie oilcloth	legal low-class willingly	likely luckily	local alcohol	locule alkali	long-lived illegal
576	language lockage elocution	languish logjam election	legation luggage sluggish	leakage allegation	lockjaw allocution	loquacious allocation
577	lagging locking	leggings lugging	licking oil-cake	liking	longing	looking
578	lakefront well-covered	lawgiver	liquefy	locofoco	alcove	ill-given
579	legbar look-up	leg-break longboat	leg-pull lugubrious	leucoplast helicopter	likable allocable	lockup

580	laughs life-span olives	layoffs life-size slaves	leaves loaves	levies love-sick	lives lovesome	lifesaver elves
581	laughter livid elevator	lavatory loft ill-fated	lafayette loved slaved	left alleviate solved	lifetime aloft well-fed	lift elevate
582	lavender elephant	liven eleven	live-in elfin	live-one well-founded	love-in slovenly	alphanumeric solvent
583	lavement self-made	leaf-mining	lifeman	lovemaking	alluvium	ill-fame
584	laugher livery hellfire silver	layover loafer illfare slavery	lever lover welfare sulfur	lifer love-arrow well-over	liver louver wolfram	livewire alfresco wolverine
585	lavalava lifelong lovely	lavalieri lifeless alluvial	lawful livelihood alfalfa	leaflet lively olive-oil	level lovelock wallflower	lifeline lovelorn willful
586	lavage wolfish	lavish salvage	leafage salvation	alleviation selfish	elevation	olivaceous
587	layfolk loving	laughing ill-affected	leaving olfactory	living self-confidence	lifeguard well-affected	live-oak
588	laugh-off self-evident	leave-off well-favored	life-force	live-off	Love-wave	ill-favored
589	lavabo live-by	laughable live-up	leafhopper lovable	lifebuoy lovebird	lifeboat love-potion	livable alphabet

590	labs lobbies elopes	laps lobster helps	lapse alabaster wall-base	lips alibis celibacy	loops alps	lopsided ellipse
591	lapidary law-abiding ill-boding	lappet albatross well-paid	leaped albeit whaleboat	libido eloped	lipid allopathy	looped halibut
592	lupine whalebone	albino well-appointed	Albion sleepiness	alpine	hell-bent	olibanum
593	low-beam oil-palm	album	Alabama	albumin	elopement	helpmate
594	labor liberal lubricant wellborn	laboratory liberty elaborate wellbred	lawbreaker Libra elbow-room sleeper	leopard librarian eloper slipper	leap-year looper helper celebrate	leprosy lowbrow ill-bred wheelbarrow
595	label lobule hillbilly	lapel tube-oil hullabaloo	liable loophole well-beloved	libel lowbell soluble	lobelia allowable syllable	loblolly helpless
596	libation	lobation	low-budget	lowbush	lowpitched	slipshod
597	lawbook helping	leaping ill-being	lobbying oil-bag	looping well-being	alpaca sleeping	eloping
598	leapfrog	lop-off	all-beef	helpful	wellbehaved	lapful
599	lap-up	leap-up	ale-pub	Ali-Baba	oil-pipe	wallpaper

600	chases joss-house	cheeses shoe-size	choices	jazzist	Jesus	juices
601	chastity geste just suggest	chest gesticulate Jesuit	chestnut gist shoestring	cheese-eater jest showstopper	cheese-head joust adjust	gest justice washstand
602	chasten adjacent	chosen show-scene	geocentric juiciness	jazziness	jacinth	Jason
603	chessman	jasmine	jawsmith	jazzman	chassemaree	
604	chaser	chasseur	chooser	cheesery	jowser	juicer
605	chisel shoe-sale	choiceless wash-sale	jazzily witch-hazel	jostle hashslinger	joyously	juiceless
606	cheese-shop	chess-champion	gestion	gesture	egestion	suggestion
607	chasing joskin	chasse-cafe	chasse-croise	cheesecake	cheesecloth	choosing
608	cheeseflower	Joseph	Josephine	jussive	shows-off	
609	chassepot jazzbow	cheeseparer juice-up	cheeseburger Jezebel	chess-pie shoespoon	chessboard Josup	jasper Shuswap

610	chiteaus shadows	jets sheets	jetsam shots	jettison shouts	Judas geodesy	shades
611	cheated shutdown	jaded shutout	Judith agitate	shaded geodetic	shadowed	shoot-out
612	chatoyant shodden	chutney showdown	jetness shoddiness	jetton shut-in	jitney	shadiness
613	shedman show-time	sheet-home	shittim	shootman	shotmaker	shotman
614	chatter shooter jittery	cheater shouter geotherm	cheddar shudder	chowder shutter	shatter ashtray	shoe-tree watchtower
615	chatelain shadily	chattel shadowland	chatelet shadowly	jetliner shot-hole	shuttle	shadeless
616	chitchat agitation	judiciary	judicious	schottische	shotshell	agiotage
617	chatting sheeting geoduck	cheating shooting watchdog	judicature shotgun Asiatic	shaddock shouting	shading shutting	shadowing jotting
618	shadflower sheetful	shadoof shutoff	sheatfish	she-devil	sheetfed	sheetflood
619	jetbead sheet-block shotbush washed-up	jetport sheathbill shot-put washtub	jodhpur shootable shut-up	shadowbox shootboard chateaubriand	shadbush shoot-up agitable	sheetpiling shotblast hushed-up

620	chance genius shyness	chains genocide	chancellor agency	chanson ginseng	Chinese issuance	genesis oceans
621	chandelier gentle jaundice Shinto	chandler gentry joint shunned	chant genetics Jane-Doe shunt	Chinatown giant John-Doe agenda	gendarme jaunt shanty agent	gender janitor shindig witch-hunt
622	chignon Shenandoah	genuine	Shannon	shenango	shenanigan	shoneen
623	chainman show	chain-method name	Chinaman	chinampa	chunam	genome
624	chinaware January	general joiner	generation junior	generic shiner	generosity	genre
625	chainless oceanology	chainlet shinleaf	channel	chenille	genealogy	genial
626	change gingivitis	chain-shaped agential	chinch jointure	chinchilla	ginger	gingelly
627	chink jonquil shunning	Chinook junk shank	chunk junkie adjunct	gynecologist junction adjoining	johnnycake schnook eugenic	joining shining hygienic
628	Geneva shoe-knife	genuflect	janiform	junefish	juneflower	oceanfront
629	china-boy joinable shinplaster	chinbone Juneberry	chin-up junebud	janapa juniper	johnapple schnapps	johnboat shinbone

630	chemise shames	chimes shamus	chums	gems	James	jams
631	geometry age-mate	jammed	jamwood	jimdandy	jimmyweed	ashamed
632	chimney gymnast hush-money	chow-mein shaman wash-woman	G-man showman watchman	Gemini ashman	geminate hegemony	gymnasium hatchman
633	Jemima	gym-master	jam-maker	show-member		
634	chimer shamrock	chimere shimmer	gemmary shomer	jammer	shamir	shammer
635	chummily shameless	gemlike Ishmael	gemmologist Gimli	gemmule	gym-hall	schmaltz
636	gemmieeous	gemmation	gym-shoe	Jamshid	jimjams	shim-sham
637	chiming jamoke	gemming shoemaker	gimcrack watchmaker	gymkhana yashmak	Jamaica	jamming
638	gem-fruit chamfer	gemmiferous chamfron	shamefaced	shamefast	shameful	sham-feed
639	chamber jambeau jumbo	champagne jambalaya jumble	champion jambone jump	champignon jam-pack shambles	chimpanzee jam-up shampoo	chump jamboree chimp

640	chairs jersey	cherries jurist	chores Scheherazade	gyroscope shares	gyrus shears	jars
641	charity chariot shrewd	chard joyride shroud	chart shirt surety	charter short watchword	cheroot shard ushered	cheet shred
642	charnel journal sojourn	churn journey sureness	gerent shrine adjourn	Geronimo shrink assurance	gerund shorn usher-in	geranium shoehorn Gorn
643	chairman germinate showroom	charm gerrymander shrimp	charwoman jeremiad washerman	germ juryman washroom	German jurywoman	germane ashram
644	cheerer shirrer	Gerardia shorer	juror surer	sharer assurer	shearer usherer	shearier usurer
645	charlatan schorl usherless	charily sherlock	cheerleader shoreline	Charlie shareholder	cheerless shrill	churlish surely
646	charge shrewish	cherish ushership	church	Churchill	George	gyration
647	charcoal jargon shrug	Cherokee jerrican	gyrocompass shark	Jericho sharing	jerk shirk	jarring shriek
648	chervil shroff	cheerful shrove	sharif surefire	sheriff surefooted	shrift giraffe	shrive
649	charabanc cherub shrapnel	charpoy sharp shrub	cheer-up sharpy	cherry-pie sherbet	chirp shorebird	chirrup showerproof

650	chalice joyless	chills Julius	jalousie shells	jealousy shoelace	jailhouse ageless	jewels socialism
651	child shelter	gelatin shield	gelid shoulder	jilt age-old	jolt agility	shallot Shalob
652	challenge jolliness wash-line	chalone julienne	chilliness shalloon	chow-line shallowness	jawline show-line	jillion echelon
653	chalumeau shellman	chillum gelometer	schalmei	schlemiel	shalm	shalom
654	chiller sheller	jailer shalier	jelerang shellier	jewelry shellwork	jollier ashlar	shallower
655	jellyleaf shell-less	jellylike shell-like	jollity agilely	shale-oil shillelagh	shallowly	shell-hole
656	geology	shallowish	shellshake	shell-shock	shilly-shally	hagiology
657	Shalako shellycoat	shealing shilling	shellac Shylock	shellcracker age-long	shell-egg gelignite	shelling hatchling
658	jellify shellflower	jellyfish shell-vault	jollify shelver	shelf	shellfire	shellfish
659	chilblain julep	jailbait shallop	jailbird shellapple	jailbreak shellback	jalopy shellproof	jellybread shilpit

660	cha-chas judges	chiches shojis	chi-chis	cicisbeo	joy-juice	joshes
661	chichituna	jo-jotte	jujitsu	joshed	judged	shushed
662	jejune wishy-washiness	jejunum	Jewishness	shoeshine	Shoshonean	watch-chain
663	judgmatic	judgment	chechem	Chichimec	shisham	hashish-hemp
664	Cheshire	chicharro	joshier	judger	Jewish-rye	ash-shower
665	chachalaca	shashlik	wedge-shell	wishywashily		
666	cha-cha-show	judgeship	hashish-ash			
667	cheechako	joshing	judging	Shoshoko	shushing	
668	Jewish-faith	Jehoshaphat	Cheshvan			
669	Chachapoya shoe-shop	chichipate showshop	chichipe	jojoba	jujube	shoe-shaped

670	checks jockeys watchcase	checkstones jokes jacks	checkstrap shakes	cheeks showcase	chicks Ajax	jackass hedgehogs
671	checked gigot sheikdom shoe-shop	checkout jackdaw shocked showshop	chickadee jacket adjective	Chiquito jagged eject	chickweed shakedown Washington	choked shake-out shoe-shaped
672	cheekiness shaken	checkin shake-hand	chicken ashcan	chicanery	gigantic	jackknife
673	chagoma shaggymane	checkmate	Chickamauga	geochemist	jackhammer	jigamaree
674	chagrin checkwork jaywalker witchcraft	chicory choker joker sugar	checker jaguar geography	checkrein jigger age-group	checkroom jogger hitchhiker	checkwriter jayhawker shaker
675	chagul chuckle jocular shekel	checkless gigolo joggle shingle	checkline jackal juggle washcloth	checklist Jekyll jugular wishing-well	chicle jiggle jungle	chocolate jingle shackle
676	checkage hootchy-kootchy	chokecherry	Chukchi	jackshaft	jigjog	ejection
677	checkhook joking	checking shaking	check-key shocking	Chicago ashcake	chugging jacking	jogging hijacking
678	checkoff jackfruit Chekhov	check-over jugful	check-weave shakefork	chock-full shake-off	choke-full shake-wave	jackfish shockwave
679	cheekbone check-up shakeup	cheekpiece chick-pea	checkback chockablock	checkbite Jacob	checkbook Jacobin	checkpoint shakeproof

680	chafes jives	chauffeuse shaves	chefs sheaves	chiefs shoves	chives watch-face	geophysics watch-officer
681	chafed shavetail	chiefdom shift	chieftain shoved	cheviot Java-tea	shaft achieved	shaved
682	chaffinch shaven	chiffon ash-oven	chauvinist washfountain	chavender	Japanese	juvenile
683	chief-mate	sheaveman	show-fame	achievement		
684	chafer shaver witch-fire	chaffer shivaree whichever	chaffron shiver Jefferson	chauffeur achiever shofar	chevron ashiver	shofar watch-fire
685	chevalier joyful shuffle	chiefless shaveling ashfall	chiefly sheaflike age-fellow	chivalry shoeflower wishful	javelin shoofly	jovial shovel
686	chief-justice-ship geophagy	chiffchaff	chivage	jewfish	shavish	she-fish
687	chafing jiving	chaffing showfolk	chaffcutter achieving	shaving	shovegroat	shoving
688	chaff-flower	chief-of	shave-off	shove-off		
689	chaffable	chavibetol	achievable	shove-up	watch-fob	

690	chaps gypsy shops	chapstick gypsum showbiz	chips jabs showpiece	chops jobs	chopsuey gyps	chophouse ships
691	chapter ashpit	chopped hashpot	gibbet hotchpot	shipped Egypt	shopped Jupiter	showboat Jabba the Hut
692	cheapen Japan ashpan	chip-in jawbone hash-pan	Chippendale shabbiness watchband	Chopin sheepnose wishbone	chubbiness sheepnut	chupon shipowner
693	chapman shipment	chapwoman shipmaster	chipmunk shipmate	sheepman shopman	sheepmaster hatch-beam	sheepmint
694	chaparral gypper jeopardize shipyard	chaperon jabber shipper hatch-bar	cheaper jabberwocky shopper washboard	chipper jobber shepherd switchboard	chopper jawbreaker shipwreck	gibber jabiru shipwright
695	chapel shapely ash-blond	chaplain shoeblack washable	Chablis shoebill sociable	giblets showbill	jobless shibboleth	jubilee shoplifter
696	chippage sheepshearer	chop-cherry sheepwash	chop-chop shipshape	jib-o-jib hodgepodge	she-beech Egyptian	sheepish
697	chapping shipping Chewbacca	chipping shoepack	chopping shopping	jabbing shopkeeper	shaping shebang	sheepgate hedgepig
698	chapfallen sheepfoot	chop-off shopful	shapeful	sheepfaced	shipfitter	sheepfold
699	chapbook sheep-pod	chip-blower shipboard	chip-proof shipbuilder	jibboom hushpuppy	shapable	shape-up

700	cases gashouse exhaust	causes kisses exist	cusses axis ecosystem	gases access success	gazes excess	guesses excise
701	cassette custard guest august Occident	cast custom gust ecstasy oxidize	caustic custody gusto excitement	cost gastronome quest exit	costume gazette accident extend	coast ghost acoustics extra
702	casino cuisine acquiescence	cosine gesundheit eccentric	coziness goosander oxen	cousin gooseneck waxen	caisson keeshond	cozen accent
703	casement kismet egoism	chasm axiom quasi-medical	cosmos axman	gasometer exam	gizmo example	keysmith exempt
704	causerie gizzard exhort	casserole guesswork exorbitant	gasser Kaiser waxer	gasworks accuser	gazer exercise	geyser exert
705	cas-elaw gazelle exalt	caseless guzzle exhilarate	castle quasi-legislative exile	causal quisling excel	gaslight axle exhale	gasoline auxiliary
706	causeation exchange	gasogene exchequer	quasi-judicial exigent	quiz-show oxygen	accusation case-shelf	acquisition
707	cascade gasket exclaim	casing goose-egg exclude	cask kiosk excuse	cassock kissing execute	cossack exact excursion	casket excavate exquisite
708	cohesive gooseflesh	case-phrase kiss-off	gas-fired oxfly	gasiform oxford	gasify quasi-official	goosefoot
709	casaba gazebo except expire	Casbah gooseberry exhibit explain	cup gospel expand explore	cupid gossip expect export	cupidor hocuspocus expend express	gasp accept experience exuberant

710	cats co-eds quits	catsup codicil	catastrophe egotism	coats goddess	caddies godson	codes kites
711	cadet godhead acquitted	cathead guttled hog-tied	cathode quietude	cathedral quotidian	cutout quoted	coded acted
712	cadence giddiness kidney	catnap good-natured kitten	catnip goodness aquatint	codeine guidance acquittance	cotton guidon quietness	Gideon kidnap wickedness
713	catamaran Gotham	catamenia academy	catamount hecatomb	gatemane	godmother	good-humored
714	cataract cutter quadrant squadron	catarrh gather quadruped skater	catering guitar actor	caterpillar gutter actress	coder kidder equator	cotter quitter scatter
715	catalog cuddle kettle	catholic cutlery acquittal	cattle cutlet schedule	caudle godly Scotland	coddle goodly scuttle	cotillion goodwill
716	cattish kiddy-show	cottage quotation	godchild	good-show	go-dutch	kaddish
717	catcall cuticle kittiwake skating	catacomb cutting acting	catgut gatecrasher aquatic	catechism goody-goody hectic	coeducational Gothic octagon	coating kidding walkie-talkie
718	cadaver get-off scot-free	catafalque go-devil	catfish godfather	codfish khedive	cutoff active	gadfly octave
719	catapult cutup equitable	catbird getup October	catboat giddap octopus	catbrier guidebook	cutback good-bye	cutiepie Good-Hope

720	cancel concentration consist consume agonize	cancer consent console counsel Kiwanis	coincidence consequence conspire gunhouse Aquinas	conceal conserve constable gainsay	concede consider constitution gunnysack	conceit consign consul queens
721	candid condition continue country quantity	candle conductor contract gander quaint	candy contact contribute gauntlet account	cant content count keynoter acquaint	canter contest counter kind	condense context county quandary
722	canine gunhand	cannon Queen-Anne	canon quinine	canyon	conundrum	ganoin
723	gunman kinema	gunmetal konimeter	agnomen	economy	equanimity	ignominy
724	canary goner	canard gunner	caner gainer	cannery ignoramus	coiner skinner	coowner
725	canal keenly	gunlayer queenly	gunline acknowledge	gunlock hangnail	gunwale signal	kennel
726	coinage conjurer kinship	coinsurer conscience quench	concha conscientious signature	conjecture conscious	conjugal gunshot	conjunctive gun-shy
727	cannikin conk conquest kink	conclave concrete congratulate	conclude concur cunning	concoct congress eggnog	concussion connect hakenkreuz	concord conquer iconoclast
728	canvas confiscate convention connive	confection conflict convert gainful	confederate conform convey gonfalon	confer confuse convict gunfight	confine convalesce convince gunfire	confirm convenient convoy queenfish
729	canape gunpoint	cannibal gunpowder	canopy queenbee	connubial ignoble	gunboat	gunplay

730	cameos games	chemist gums	comestible	combs	commas	commissary
731	comedian commodity accommodation	comet commodore	commit commuter	comity gamete	committee gamut	commode hook-method
732	commander communist keyman	commence communicate kimono	comment community acumen	common cowman augment	commons cumin	commune gamin
733	Camembert	commemorate	co-member	chamomile	Agamemnon	echomimia
734	camera gamma-ray	comer aquamarine	commerce	commercial	comrade	cummerbund
735	camel comely accumulate	camellia cumulative	Camelot cumulus	camlet gamely	calmly gimlet	chamelion kiimmel
736	camshaft gumshoe	commeasure	commission	commissure	commotion	cumshaw
737	chemical gimmick	coamings gumming	combing kamikaze	comic kumquat	coming kymograph	gaming
738	camphor comfort	camphene gumfield	camphire gumflower	camouflage keymove	come-off	comfit
739	camp company competence comply gamble	campus compare compete component gambit	combat compass complain composer gambol	combine compassion complete compress gumbo	combo compel complex compromise	compact compensate compliment computer

740	caress craze crucifix Christian garrison Greece Icarus	coarse crease cruise Christmas grace grocer	correspond crest crust chrysanthemum grasp gross	corsage crass crystal charisma grass accuracy	corset crisis curious chorus graze across	course cross curse garcon grease Aquarius
741	carat cord cradle crowd curtain grade growth keyword yogurt	card cordial crate crude curtsy grate grid quart	cardinal corridor crater curate chord gratify grit quarter	carrot courtesy create curd garden gratis guard accord	cart court credit curt garter great karate accurate	cartoon coward critic curtail gird greet krater egret
742	careen corner crank crooner grand grin green	carnage cornet crayon cranberry granite grind kernel	carnation cornice crony garnet grant ground ocarina	carnival corny crown garnish granny grown quarantine	chronic coronation currant grain greenhorn guarantee hanger-on	corn crane current granary greyhound groan
743	Carmen crime grammar gourmet acrimony	chromium crimson grampus gourmand aquarium	cram crumb grim gremlin agreement	cramp crumble grime Karma sacrament	cream garment groom kermis scream	cremate gram grumble Kremlin skirmish
744	carara coherer agrarian	career corer	careworn crier	cariri curare	carrier grower	courier Gruyere

745	carryall cruel girl aquarelle	careless curl gorilla eggroll	carol cure-all grill squirrel	coral chorale growl scarlet	corral garland gruel	crawl garlic quarrel
746	carriage crouch gracious	carwash crush gurge	courage crutch grudge	crash garage kirsch	cache gorge aggression	creature gorgeous accretion
747	carcass crack cricket crook grog	cargo crackle croak croquet gherkin	caricature crag crock co-worker aggregate	character creak crocket curriculum segregate	cork creek crocodile gargle Kirk	correct crick crocus Greek
748	carafe craft graft grief scarf	caravan cravat graffiti groove	careful crave graph grove	carryover crevice grave gruff	carve curfew gravel aggravate	corvette curve gravy sacrifice
749	carabao carpet corroborate crop garbage grub	carbide carry-back crab croup grab	carbine corporal crepe curable grape	carbon corporation creep curb grapple	carboy corpse crib chiroprapist grip	carp corpulent cripple chiropractor group

750	calls close glass	calcium closet glaze	callous cluster glissade	clasp colossus gloss	class cholesterol equalize	clause gallows oculist
751	cauldron cold gilt gloat killed escalator	clad collide glad glut kilowatt	cleat colitis glade gold quilt	clod colt glide guild equality	cloth cult glitter guilt occult	cloud geld Goliath kilt wiglet
752	calendar clinch colon glance esculent	call-in clinic cologne gland	clandestine clink colony glean	clean clown coolness glen	clench colin gallant kiln	client colleen gallon ugliness
753	calamity clemency culminate gloom golem	calumniate climate glamour glum Gollum	claim climb gleam acclaim	clammy clump glimmer acclimate	clamor clumsy glimpse kilometer	clamp column gloom schoolmaster
754	caller clarion cooler killer scholar	calorie clear galore Kilroy	chlorite clergy gallery clair	claret clerk glare heckler	clarify collar glory ocular	clarinet color glowworm ogler
755	Galilean guileless	Galilee keelhaul	clawless echolalia	coalhole ukulele	coaloil uglily	glow-lamp
756	clash coolish killjoy	clutch galosh klatch	collage Gaulish ecology	collation glacier English	college goulash	collision keelage
757	calculator cling collect kilogram	calico cloak colloquy kulak	calling clock cowlick aqualung	clang clog Gaelic	claque colic galling	click colleague goalkeeper
758	cauliflower culvert killifish	clavate clove qualify	cleave gallivant oakleaf	cleft glove skillful	clever golf	cliff gulf
759	calabash club glib gulp eucalyptus	caliber coalpit glob kelp	calliope collaborator gallbladder kelpie	calaboose collapse globe kleptomaniac	calypso culpable goalpost eclipse	clip gallop gullible equilibrium

760	cages gashes	caches gauges	catches gouges	cautious gushes	coaches gauchos	couches sagacious
761	cached gadget	cached gashed	caged gushed	coached actuate	couched	cogitate
762	cash-in auction	catch-on equation	caution occasion	cushion hog-chain	kitchen section	action
763	cashmere	catchman	catchment	coachman	accouchement	Scotchman
764	cashier gasher	catcher gouger	catchword gusher	cochairman kosher	cojuror actuary	gauger hung-jury
765	cageling cudgel	cajole actual	casual eggshell	catchall	catch-letter	catchlight
766	cachucha	cage-shaped	co-judge			
767	caoutchouc gashing	cashing gushing	catching hogchoker	coaching	gauging	gouging
768	cageful	catchfly	catchphrase	cochief		
769	cashbook ketchup	cashboy key-job	cashbox	catchpenny	catchpole	catch-up

770	cakes gags quacks	caucus gangster quickset	coax kicks quickstep	coexist kings	cox quicksand	cooks quicksilver
771	cockatoo cockeyed kingdom	cocotte cooked aquacade	cocowood cookout quick-tempered	cactus coquette quick-witted	cocktail gaycat	cockade go-getter
772	cocaine Cockaigne cognomen	cocona cockney hog-cane	coconut cow-cane	cockiness kuchen	cocoon quickness	cognate cognizance
773	cocomat kingmaker	cogman quagmire	cuckoo-meat hockey-game	cucumber	gingham	kakemono
774	caulker cokery Quaker	cockerel cookery quicker	cockhorse cougar	cockroach gangrene	cocorico go-cart	cograil kicker
775	cackle coequal googol	coagulate coggle kingly	cockle cogwheel quicklime	cocklaird gangland aquaculture	cocklight giggle	cockalorum goggle
776	cockcnafer quackish	cockshut	cockshy	cocksure	coction	cowcatcher
777	caulking kicking	cooking HongKong	cogging quaking	gagging	gawking	go-go-girl
778	cacophony kingfish	cock-feathered	cockfight	cow-calf	cuckooflower	kickoff
779	co-captain cocobolo kickup	cockboat cocopan kakapo	cockpaddle cookbook kingpin	cockpit cuckoo-bee kookaburra	cockup gangplank eggcup	cock-a-hoop kickback

780	cafes coves	calves coveys	cavascopes cuffs	caves gaffs	coffeeshouse goofs	coifs kvass
781	caftan coughweed	cavate covet	cavatina gavotte	caveat gift	cavity goofed	coffeeweed aquavit
782	caffeine given	coven give-in	cavendish goofiness	cave-in	coffin	covenant
783	caveman	cavum	coffee-maker			
784	cavern cougher Kafir	caviar gaffer quaver	coiffure giver quiver	coffer gopher hangover	cover goofer	covert governor
785	cavalcade coffeelaf scaffold	cavalier coeval scuffle	cavalla coffle	cavalry gavel	cavil equivalent	cafe-au-lait wakeful
786	coefficient	hagfish	hogfish	gavage		
787	coughing giving	cavaquinho kaffeeklatsch	caving kavika	cofactors quaffing	goofing equivocal	gaffing
788	coffee-flavored	give-off	goof-off	qui-vive		
789	coffeeberry	coffeebush	coffeepot	cough-up	give-up	goofball

790	cabs capstone keepsake	caboose capsule hiccups	capacity copious cabasa	capes copies Cupid	capsize cowboys	capstan gaps
791	capital cop-out	capitol cupid	capitulate kept	captain equipped	captivate sickbed	copied
792	cabana cow-pony occupant	cabin cowpuncher hogpen	cabinet Cuban	capon keypunch	coupon gibbon	cow-pen gaboon
793	cabman	capmint	capomo	equipment	kaboom	cubmaster
794	caper copyreader keyboard	caprice copyright kipper	cooper cooper aquapura	cooperate gabardine skipper	copper gabber cobra	copra keeper
795	cabal cobblestone cubbyhole aquaplane	cable cobalt cueball quibble	capelet copilot cupel	capelin couple gable	Capella copula goblet	cobbler cowbell goblin
796	cabbage capture	cabochon capuchin	capacious kibosh	Cape-ash equipage	caption occupation	captious
797	capcase kapok scapegoat	caping keeping walkback	copycat kopeck	copying hockeypuck	cubic hogback	cupcake hokey-pokey
798	Cape-ivy gabfest	cap-flash	capful	cupful	keep-off	cubiform
799	capable cubeb	cap-a-pie cupbearer	capybara kabob	cobweb keep-up	copybook key-pipe	copyboy

800	faces vases off-season	face-saving vices	fezzes vicissitude	fusses voices	phases half-size	physicist offices
801	facade feast vast avocet	facet festival vest eavesdropper	facedown festoon vestibule heavyset	fast fiesta vestige offset	faucet fist vestry offside	Faust fusty visit offstage
802	face-nail physiognomy off-center	fascinate vasoneurosis waveson	fasten vicenary	fussiness vicinity	fuzziness V-sign	pheasant aficionado
803	facemaking Ophism	faceman	vasomotion	vasomotor	vice-master	effacement
804	facer visor	facework vizier	fossorial officer	fusser phaser	vasoreflex	viceroys
805	faceless fusillade vessel	face-lift fuselage viceless	face-wall foozie voiceless	facility vacillate half-slip	fizzle vaseline half-sole	fossil vassal officeholder
806	facetious	physician	vice-chairman	vice-chamberlain	vice-chancellor	visage
807	facing fussing vice-god	fiasco fuzzing vice-governor	fiscal physic vice-king	fizzing physique effacing	fuscous vesicle	fusing viceconsul
808	face-off voiceful	phosphor effusive	vis-a-vis evasive	visive halfcivilized	Vesuvian	vociferous
809	facepiece vesper	faceplate vice-president	faceup visible	feasible office-boy	fusible offspring	fussbudget

810	fatso footsore votes	fates footstep	feats footstool	feuds photostat	fight vats	fetus vets
811	faded vedette off-duty	fade-out voted	fated phototube	fetid half-tide	fitted half-witted	fuddyduddy heavy-duty
812	fade-in avoidance	fatten evidence	fitness halftone	footnote offtune	photonegative ophidian	photoengraving softness
813	fathom vitamin	fat-man half-dime	fitment halftime	footman offtime	footmark	photomap
814	father fetter footwork aviator	fatter fitter veteran evader	feather fighter veterinarian heavy-water	fedora fodder vetoer Vader	feeder footrest voter	federal footwear after
815	fatal foothill fuddle	fee-tail foothold futile	fettle footlights vital	feudal footlocker vittles	fiddle footloose photoelectric	fidelity footwall half-dollar
816	fattish food-show	fat-chewing photogenic	fat-choy wattage	fetish	fiduciary	footage
817	fading footing	fatigue photograph	feeding voting	feuding vodka	fighting voiding	fitting evading
818	fateful photoflood	faithful photo-offset	fitful vaudeville	footfall votive	photofinishing affidavit	photoflash
819	fatback footpace	fed-up footpath	feedback footprint	football avoidable	footbridge	footpad

820	fancy vainness evinced	fence veins heaviness	fiance vines hyphenize	finesse Venus offense	fines venison waviness	fins venous
821	faint find fountain vaunt affinity	fanatic fond fund vend event	fantastic fondu phantom vendetta have-not	fantail found phonetic vent hyphenated	fend foundation vanity vindicate offend	fiend foundry vantage vintage offhand
822	faineant evenhanded	fanion venenate	Fenian	finance	funniness	phoniness
823	funambulist ovenman	funnyman halfnumb	phenomenon	phoneme	venom	euphonium
824	fawner vineyard	finery evener	funeral heavenward	vanward	veneer	venerable
825	fanlight vanilla	final vainly	finely vinyl	finial heavenly	funnel	phenol
826	finch V-engine	finish avenge	Finnish evangel	vanish eventual	Venetian	vengeance
827	fawning Phoenix avionics	feigning phonic avuncular	finagle phonograph V-neck	finicky vanguard evening	fink vanquish euphonic	funicular vinegar
828	fanfare	fun-filled	viniferous	half-inferior	half-nephew	evenfall
829	fanback oven-baked	finable ovenbird	finback	phenobarbital	evenup	heaven-born

830	fames fumes	fameuse fumous	famous vamoose	famose vomicine	femcee euphemism	foams half-mast
831	famed fumid	foamed vomit	fomites wavemeter	fumatorium half-made	fumed	fumet
832	famine vimana	feminine effeminate	foaminess half-minded	foeman half-monitor	foment half-moon	vehement if-money
833	foam-maker	off-moment	half-memorized			
834	femoral vomer	foamier Ave	femur Maria	foumart ephemeral	fumarole halfmarrow	fumer wavemark
835	family foamlike	fameless fumily	familiar fumulus	famulus half-mile	female	foamless
836	famish	fumagillin	fumagine	fumish	halfmeasure	
837	faming off-mike	femic wave-mechanical	fimicolous	foaming	fumigate	fuming
838	fameflower	fameful	foamflower	save-move	vimful	
839	fimble vimpa	fumble Phomopsis	fimbriate half-implied	vamp	vampire	vambrace

840	farce forsake four-star phrase avarice	fierce forswear forsythia various averse	firehouse freeze furious varsity aphorism	first frost furze veracity aviarist	force foursome frustrate verse overseas	forest foresee Pharisee affairs
841	farthing forte fraud froth vertebra effort overturn	ferret fortify freedom fruit verdict everything Frodo	fertile fortress freight further vertigo overdo	firth fourteen fret furtive afford overdue	ford forty Friday fjord afraid overtake	fort fraternal fright variety avert overthrow
842	farina forehand frown effront	fairness France furnace everyone	fern franchise furnish overnight	foreign frantic variance	forename friend varnish	forenoon front veranda
843	farm foreman freemason affirm	ferment former from evermore	fireman formica pharmacy	firm formula vermicelli	form forum vermin	formal frame vermouth
844	farrier forward everywhere sufferer	farer freer overhear	firearm friar over-here	fireworks fryer overwork	forearm furor offerer	forerunner furrier wayfarer
845	fairly foreleg freeloader furlough overwhelm	farewell forlorn freewheeler everlasting virile	firelock frail frill overall	firewall Fraulein frolic overland	ferrule freelancer furl overlay	forehand free-living furlong overlook
846	ferocious fourragere veracious avaricious	forage fragile verge average	forge fresh version aversion	forejudge frigid virgin overcharge	foreshadow frosh virtue overshoe	foreshorten variation voracious
847	farrago fork freckle frug overcoat	firecracker fracas frequent frugal overcome	firing fragrance friction virago overgrow	forego fraction frigate evergreen overkill	forget fragment frock offering	forgive freak frog overact
848	farfetched forefinger forever overflow	far-flung forefoot free-for-all overfreight	far-off forfeit frivolity overview	fervor forfend verify	foreface forehoof verve	forefather forefront effervescent
849	fireball fireplug freeborn overpower	firebox firepower four-poster overburden	fireboat fireproof variable	firebrand forbear verb	firebug forbid everybody	fireplace freebooter overpay

850	FLEECE fogies floss	false philosophy	felicitate valise	fail-safe velocity	fallacy avulse	fleas civilize
851	fallout filth float fold violet	falter flat flood philodendron	fault flatter flotsam philatelist	felt fleet fluid valet	field flight flute valid	filter flitter flutter vault
852	feline flint philanderer violence	felon flaunt philanthropist violin	fall-in flounce valence volunteer	flank fluent valentine vulnerable	flannel flounder valiant avalanche	flinch fullness villain
853	fellowman flamboyant folium velum	filament flamenco fulham	film flamingo fulminate	flam flimsy vellum	flame flume velometer	flambeau flummery volume
854	failure florin fuller volar	flair floor phalarope	flare flour philharmonic	filler flower valor	flirt flurry velour	flier follower valerian
855	fallal fuel-oil	filial full-length	flail philologist	flawless valueless	flyleaf	flywheel
856	filch fletch village effulgence	flash flowage violation evolution	flesh fly-ash volition ovalshaped	flush foliage vulture	fellowship foolish affiliation	fledgling valuation avulsion
857	falcon flag flog fulcrum havelock	fallguy flake flock phlegmatic Ivy-League	falling flax fluke phlox	felucca flex flying volcano	filigree flick follicle vulgar	filing fling following afflict
858	fallfish flivver valve half-life	falloff fluvial velvet ivy-leaf	filefish flyover vilify	file-off fluff vulva	flavin fulfill effluvium	flavor fulvous evolve
859	fallible fillip foul-up volplane	flab filibuster fullback voluptuous	flap Filipino full-blooded available	flip flyboy full-blown	flop flypaper valuable	flub followup vorable

860	fascist voyages	fatuous vichyssoise	fishes effigies	fish-house officious	vicious savages	vouchsafe
861	fidget fitchet half-sheet	fished fugitive half-shot	fish-day vegetable officiate	fishtail vegetarian offshoot	fishweed vitiate	fishwood vouched
862	fagine Vishnu oafishness	fashion vision officiant	fission aviation offishness	fishiness efficient ovation	fishnet effusion sufficient	fusion evasion
863	fishman	fish-maw	fishmonger	fishmouth	avouchment	
864	feature future savagery	fisher voucher	fishweir voyager	fishworm voyageur	fissure officiary	fudger offshore
865	facial fishwell halfshell	fishhold fudgewheel official	fishily vagile	fishline vetchling	fishoil vigil	fishowl visual
866	fish-joint	vitiation	voyage-charter	fasciation		
867	fetching vouching	fishgig voyaging	fishhawk half-jug	fishhook	fishing	fetching
868	fishfall half-shaved	fish-farming	fishify	fish-flour	fishwife	fish-finder
869	fetch-up fish-bone off-job	fishable fishpond wave-shape	fish-bellied fishpound	fish-blooded fishplate	fishbowl fishy-back	fishberry vouchsafe

870	facsimile fogs vex	fakes folks efficacy	fix fox evokes	figs fucose half-caste	focsle focus offcast	focus vaccine
871	fact fictitious vocate wave-cut	factory fogeater affect	factotum folktale avocado	faggot vacate effect	fagott victim evacuate	fecket victor offcut
872	fecund viscount	fogginess half-cone	afghan safe-conduct	vacant	vagueness	vicuna
873	fagmaster off-camera	figment off-campus	focometer phocomelia	folk moot	vacuum	offcome
874	faker foggara vicar safeguard	fakir fogger vigor	fiacre foghorn evoker	ficaria folkright half	figure vagrant acre	figwort vaquero safecracker
875	fackeltanz fogle vaguely off-color	faculty fogless vehicle	fecal folkland vocal	feckless folklore aviculture	fickle fugal half-eagle	focal fugleman if-clause
876	faction fogyish avocation	factual folkish efficacious	feature fugacious eviction	fiction vacation	figshell vaguish	foggage vocation
877	fagging evoking	faking havocking	fogging heavy-going	folkcraft offgoing	Viking	half-cock
878	fake-off	feckful	fogfruit	folkfest	halfcovered	ivy-covered
879	fogbank evocable	fogbow half-cap	fogbound huffcap	vagabond safekeeping	vocable	vocabulary

880	fauvism frvestones half-faced	fives fiefs	fivesome fifes	fivesome vavasor	five-spot vivacity	five-star vivisection
881	fifth half-fed	fifty heavy-footed	fifteen hoof-foot	fiefdom	five-day	vivid
882	favonian avifauna	viewfinder	vivente	vivandier	ivy-vine	Vivien
883	five-man	five-minute	feoffment	half-feminine	vivamente	
884	favor fiferail	favorite five-year	fever foofaraw	feoffor viverrine	fifer half-fare	fiver half-evergreen
885	faveolus half-oval	favilla half-volley	five-leaf half-vowel	fiveling off-flavor	foveal V-value	half-full
886	fifeshire	five-shooter	foveation	vivacious		
887	fifing	five-corners	five-corns	half-vacant	ophiophagous	
888	faviform foveiform	fee-faw-fum vivificate	five-figure vivify	fivefold	five-finger	five-footer
889	fife-player viviparous	five-piece	fivepins	five-ply	fivepence	five-percenter

890	fibs fubsy	fobs phobias	fibster VIPs	fops ovipositor	phoebes halfpace	Phoebus wave-base
891	vapid half-boot	if-bet half-paid	fibbed hoofbeat	fobbed offbeat	fopped Phi-Beta	half-bat V-bottom
892	Fabian half-pint	viewpoint hoofbound	half-bent	half-bound	halfopen	halfpenny
893	fob-maker	half-beam	off-beam	V-bomb		
894	fabric vapor ivyberry	febrile vibrate offprint	February viper	fiber evaporate	fibber halfbreed	foppery hoofprint
895	fable viable V-belt	fabulous affable V-block	feeble half-blooded safe-pledge	fibula half-bull	fipple ivybells	foible off-balance
896	fabaceous ivy-bush	fob-chain	foppish	half-page	halfpitch	off-pitch
897	fibbing halfback phobic	fobbing half-box vapography	fopping half-pack	ephebic half-pike	halfback hoof-pick	half-baked off-peak
898	fabiform	fob-off	half-paved	half-payoff		
899	fob-pocket	half-bib	half-bob	V-bob		

900	paces poses obsess	passes basis	pauses bosses	pieces buses	Pisces apsis	possess abscess
901	past piston base-hit best abstain upset	paste pistol bast bestow abstract upstairs	pastor post bastard bistro apostrophe upstart	pastry positive baste boast obstacle	peseta postiche beast boisterous obstruct	pest postillion beside bust opposite
902	peasant bison	poison business	baseness absent	basin epicene	bassinet obeisance	bassoon obscene
903	pacemaker besmear opossum	peacemaker besmirch spasm	pessimist besom specimen	baseman bosom possum	basement aposematic	beseem appeasement
904	pacer buzzer upsurge	passer absorb	piecework absurd	bazaar abuser	bizarre observe	boozier opposer
905	passel absolute	pusillanimous absolve	puzzle apostle	pussywillow epsilon	baseless obsolete	basil upswell
906	passage beseech	pasture besiege	position obsession	possession abscission	posture	bee-sage
907	passkey bascule bisque upswing	passing bask boscage	pesky basket abscond	pussycat bazooka episcopal	base-court bicycle obscure	basic biscuit opposing
908	Pacific abusive	pacifier specific	passive	peaceful	piassava	pussyfoot
909	passable passe-partout possible busybody	passback pass-up baseball upsweep	passband peaceable bespatter	passbook peace-pipe besprinkle	pass-by peace-plan biceps	passport pea-soup busboy

910	patsy batsman boots	peau-de-soie bathhouse hypothesis	pedestal bathyscaphe appetizer	pedestrian beads obtest	poetess beside	pizza bodice
911	padded apathetic hypothetical	petite appetite update	pas-de-deux aptitude uptight	potato epithet up-to-date	beatitude ebbtide	bedtime habitat
912	patent python between uptown	patina badness botany	petunia badinage butane	piton baton button	potency beatnik obedient	put-on bedouin obtain
913	peatman by-time optimist	pitman abdomen September	podium apothegm speedometer	badminton epidemic	betimes epitome	bottom hebdomad
914	patriot poetry batter bidder upturn	patron pother battery bitter	patter potter bedroom bother	pattern powder betray boudoir	petroleum putter better butter	pewter bather betroth obtrusive
915	paddle potluck bodily	padlock puddle bootleg	pedal badly bottle	pitiless battle butler	poodle bedlam aptly	pothole beetle
916	patche potiche bootjack	patagium potsherd habitation	pedogenic potshot optician	petition pottage	potage potty-chair	potash beautician
917	padding petting biting abdicate	paddock pudding boating abduct	patting bathing bodega apothecary	pedicure bedding bodkin heptagon	pedigree bedeck bodyguard optical	petticoat betting boutique uptake
918	pay-TV put-off bedfast	pettifogger baitfish epitaph	pitfall batfish spiteful	pitiful batfowl	pot-au-feu beatify	potful beautiful
919	paid-up bad-boy hospitable	petit-pois batboy	potable beat-up	potbelly bedbug	potpie bedpan	put-up habitable

920	panacea pensive benzine happiness	pans pianist bonus hypnosis	pains pincers bounce Bones	pansy pounce bunnies	pence puns buoyancy	pencil banister abeyance
921	paint penitent pound bend bonito append	panda penthouse pundit beneath bonnet appoint	pant pint band bent bound hypnotist	panther point banter beyond bounty	pendant pond bayonet bind bundle	penetrate pontoon behind bond abandon
922	panhandle pinane bunion	penance pinion open-end	peninsula puniness opinion	penknife banana opponent	pennant benign	pennon bonanza
923	panama benumb	Pan-American bonhomie	panman byname	penman eponym	penumbra open-minded	pinman openmouthed
924	panorama binary opener	peignoir binaural weaponry	penury boner	pioneer abnormal	banner habanera	beanery open-air
925	panel pinhole	penal pinwheel	penholder banal	penniless hobnail	penult openly	pianola spaniel
926	panache pinch banish espionage	panjandrum poncho banjo Spanish	pawnshop pongee banshee spinach	penchant punch bench	pension pungent bunch	penuche punish appanage
927	pancake pinkeye bank opening	pancreas Pinkerton banquet	panic pinko bunk	penguin pinnacle bunker	pincushion punctual abnegate	pink punk happening
928	painful pinfall benevolent	panfish pinfeather bonefish	panfried pinfire bonfire	pen-friend pinfish boniface	pianoforte pinfold bowie-knife	pinafore benefit
929	panoply pennyprick pinniped	panpipe pinball pinup	panplane pinbone bonapartist	pawnbroker pineapple bonebreaker	penny-pincher pinpoint hobnob	penny-plain pinprick open-up

930	palmist Bahamas	paymaster beams	poems bemuse	pomace bombs	pomes booms	pumice bums
931	pomade bimetal by-motive	poematic biometrics hop-o-my-thumb	pommetty bombed	beamed bomb-out	beamtrawl boomed	behemoth boomtown
932	payment bemoan hypomania	pieman bimanual	pimento bimonthly	pimiento bowman	Pomona abominable	bemman ape-man
933	palm-marten	baum-marten	boom-man			
934	palmer boomerang	Pomeranian bummer	beamer submarine	bemire	bomber	boomer
935	palm-oil boomless	pimelate boomlet	pomelo	pommel	pomologist	pummel
936	bombshell submission	boomage	beamish	pomaceous	pumiceous	bumptious
937	palming booming	pemmican boomkin	pomegranate bumkin	pumex bumming	beaming	bombing
938	palmification opium-fiend	palmful	pamphlet	pemphigus	pomfret	pomiform
939	pampas pompadour bamboozle bumper	pamper pom-pom bimbo bump	pimp pompon bimeby	pimpernel pump bombard	pimple Bambi bombast	pomp bamboo bumblebee

940	parasite percentage porcelain presence price purse breeze	parasol persecute porous preserve prison barrister bristle	parcel persist praise president proceed bracelet oppress	Paris person precede press process brass hobbyhorse	parson persuade precise prestige prospect brazen upper-house	perceive pierce prescription presume prosper breast
941	parade pert pretext protest barter board bridle burden operate	paradise pirate pretzel proud beard braid British aboard parrot	pardon port pride prude berth bread broad abroad	part portrait product purity bird breath broth apart	party predict protect bard birdie breed brother apparatus	period pretense protein baritone birth bride brutal Opport
942	parent print boron brandy burn auburn	paranoid pronoun born brawn abhorrent	paranymph prune brain brink apparent	parentheses barn bran bronco apprehend	prank barren branch bronze apprentice	principle baron brand brown apron
943	paramount premier promise brim	paramour prime promote broom	preempt primitive prompt barometer	permanent primo pyramid brome	permeate primrose pyromaniac	permit prominent barmaid
944	pairer prerogative bearer	parer prewar borer	poorer prior borrower	prairie priority brewer	prayer prorated briar	prerequisite barrier uproar

945	parallel parole prelate barley burial	paralyze payroll prelude barrel burlesque	parlay pearl prologue brawl burlap	parley peerless prolong braille apparel	parliament peril prowl beer-hall whippoorwill	parlor poorly purloin broil April
946	parachute Persia prejudice barrage bridge burgeoning appreciate	parchment porch pressure biracial brioche aborigine approach	parish porridge project birch broach abortion operation	peerage portion purchase breach brochure apparition	perch preach purge breeches brooch apportion	perjury precious barge brewage brush aperture
947	park pregnant proxy barracks breakfast brook	paring prick purgatory barricade brick burglar	parquet proclaim purring bearing brig abracadabra	perk prognosis bargain brag bring abrogate	pork program bark brake briquette approximate	practice progress barkeeper break broker uppercut
948	paraffin perfidious pervious preview profile province brief	paraphernalia perforate powerful previous profit provision abbreviate	paraphrase perform prefab privacy proof provocation approve	paravane perfume preface profane prophecy purify	parvenu periphery prefer profession prove barfly	perfect pervert prevent proficiency providence brave
949	parable perpetuate problem proposal barbell approbate	parapet perplex prohibit proprietor barbecue appropriation	parboil porpoise prop purple bourbon apropos	perhaps prepare propeller purpose brob hyperbole	peripatetic probable propter barbarian burp	perpetrate probate proportion barber abrupt

950	palace plaza polestar blaze bluster hapless	pals plaster pollster blessing bolster upholstery	place please pulse bliss bluestocking hopeless	placebo plus ballast blister bylaws	placid police blaspheme blizzard bulls-eye	plasma policy blast blouse applause
951	paladin plait plight ballot blade bolt applaud	pallet plate plot behold bleed build uphold	palliative platform poultry belt bloat bulldog obliterate	pelt platinum polite bewilder blood bullet Pluto	pilot plead ballad billet blot bulletin	plaid pleat bald bladder bold ability
952	paleness plant baloney blind bowline	plain plenty beeline blink bullion	plaint plunder bland blonde by-line	plane pollen blank bluenose appliance	plank balance blanket blunt opulent	plankton balloon blend bologna upland
953	palmetto plumb blemish aplomb	palominos plumber blimp sublime	pall-mall plump bloom supplement	playmate polemic bloomers	plum polymer boloman	plume blame bolometer
954	pallor plover blower applier	peeler plural boiler supplier	pillar polar bowler	pillory puller bullring	pliers bailor bulrush	player billiards bulwark
955	palolo boll-hull	playland bullwheel	playlet	pool-hall	balalaika	blue-law
956	pillage belch blush apology	pleasure bleach bulge applejack	pledge bilge bullish oblige	plush blotch ablution whiplash	polish bludgeon abolish splash	pollution bluejay appellation
957	paling plague polyglot black bullock	pelican plaque polygon block bullying	pilgrim playground bailiwick bloke applicant	playing pluck balcony blowgun appealing	placard polecat belong bulk spelling	placate polygamy billycock bull-oak
958	paleface playful belfry bluff bullyhuff	palfrey plover belief bolivar oblivion	palaver pullover beloved boulevard uplift	pelf pulverize billfold bullfight	pelvis bayleaf bullfinch bullfrog	pilaf bailiff bluefish bull-voiced
959	pallbearer pliable bellboy bulb applepie	palpitate plop blip bluebonnet epileptic	pillbox polyp blooper bullpen Bilbo	playboy pulp blowup bullpup	playpen pulpit blueberry bullwhip	plebe ballplayer bluebird bullyboy

960	pachisi pushes bushes	patches badges Apaches	peaches beaches	pitches beeches	pouches beaugeste	poaches bitches
961	peashooter bewitched upshot	pitch-dark bowshot habituate	pitchout budget	poached bushed	pushed bush-out	beachhead bush-tea
962	pageant potion apogean	passion pudginess option	patient pushiness	pidgin bechnut	pigeon biogenic	pitch-in bitchiness
963	pajamas bigeminal	pitchman bushman	pushmobile bushmaster	beachman bushhammer	beachmaster boojum	bechamel abashment
964	patchwork badger obituary	pejorative batcher	pitcher bushranger	poacher bushrope	pochard butcher	pusher abjure
965	patchouli bitchily habitual	petulance bushel	pitchhole bushland	pugilist bushleague	bachelor special	Beaujolais speechless
966	beach-shoe	pushchair	habituation			
967	patching beachcomber object	paycheck bushcraft upcheck	pishogue bushgrass upchuck	pitching bush-hook subject	pushing bushing	pushcart abject
968	pitch-faced bushveld	pitchfork by-Jove	pushful upshift	pushover	bashful	bushfighter
969	page-boy pushball bush-pea	patch-up push-button bushpig	peach-pie push-up heebie-jeebies	pishposh bishop hobby-shop	pie-shape bushberry	pitchblende bushboy

970	packs pixie because boxer	pax pox bequest abacus	PX Bacchus bogs apex	Picasso backs bogus epics	piques bags books epoxy	pigskin bangs box
971	packet bacteria buckwheat	pact beget bugout	pagoda bequeath hepcat	picket big-idea ubiquitous	pigtail bigot aspect	pocket bucket spectator
972	pagan pignut begonia epigone	pecan bacchanal beguine hypochondria	pecuniary bacon big-name	picayune beacon bigness	pickaninny beckon bugginess	piquant begin bygone
973	pigment bigamy bookmobile	pygmy bigmouth buggyman	Pygmalion boogeyman hippocampus	bakemeat bookmaker	becalm bookmark	become book-match
974	packer pucker bigger epigram	picaroon backer biography hypocrite	picker backward bicarbonate Hippocratic	pickerel baker buck-ram	piker beggar Apocrypha	poker beaker epicure
975	peculiar backlog bogland golly	piccalilli bagel booklet apiculture	piccolo beagle buckle	pickle becloud bugle	picklock biweekly bugloss	backlash beguile by
976	package big-jaw buckjump	picture bocaccio buckshot	backwash bookish	baggage bookshelf	bakeshop bookshop	baksheesh buckish
977	peacock backache bookcase	packing background bookkeeper	pecking backing bugging	pegging begging buckwagon	picking bigwig	poking boogie-woogie
978	peccavi bagful	pickoff big-if	pigfish bogfern	backfield bugfish	backfire	back-formation
979	peekaboo backboard bookbinder buckpot	pickup backbone bugaboo buck-up	pickpocket back-pay bugbane hubcap	piggyback back-up bugbear upkeep	pigpen bagpipe bugbite	backbencher beekeeper buckplate

980	paves beefsteak	pavestone beehives	payoffs behaves	peeves obfuscate	puffs obvious	beefs
981	paved beef-tea befuddle	pavid beetongue behaved	pivot befit abaft	puffed buffet obviate	beefeater buff-tip webfoot	beefheaded buvette
982	pavane buffoon	puffin Epiphany	puffiness hopvine	bovine	bouffant	bowfin
983	pavement	bivium				
984	paver before boyfriend	pay-for befriend buffer	poverty behavior obverse	puffer beverage	beaver biform	beefier bowfront
985	pavilion beeflower bivalve	piffle bee-fly buffalo	baffle befool bufflehead	B-flat bevel hopeful	befall bifold upflow	beefless bivalence
986	pavane	peevish	bifacial	bufagin		
987	paving bivouac	puffing buffcoat	beefcake buffing	beef-cow by-effect	behaving aboveground	bifocals
988	puff-off	puff-fish				
989	puffball buffable	puffbird buffbar	puff-up aboveboard	beefburger	beef-pie	beef-up

990	papacy PPS Pepsi	papistry babies	papoose biopsy	pip-squeak bobbysoxer	poppies bobsled	puppies bypass
991	pipe-die babyhood hippopotamus	pipit baptism upbeat	pipette biped	Poppy-Day bobtail	puppet booby-trap	babbitt bypath
992	peppiriess bobbinet	pipe-in hipbone	pippin	popinjay	baboon	bobbin
993	Papiamento	pipeman	bee-balm	baby-minder		
994	paper piper	paprika popery	pauper potpourri	peeper puberty	pepper by-product	peppermint bipartisan
995	papal pipeline publisher bobolink	payable poplin pupil bubble	pebble poplar Pueblo byplay	peephole populace babble apoplexy	people popular Bible	piebald public biplane
996	pea-patch babushka	peep-show babyish	pipage baby-show	popish booby-hatch	poppy-ash	poppy-show
997	payback pipkin	paybook popcorn	pipecoline popgun	pipe-clay poppycock	pipe-key babying	piping bobcat
998	papaver poppyfish	pepful baby-faced	pipefish bobfly	pipeful bubby-flower	pop-off pupfish	popover pupiform
999	BEBOP baby-boy	pipable baobab	pipe-band pep-up	pipe-opener bubbybush	poppy-bee	pop-up
1000 dioceses diseases disuses						

13.1 Picture Words from John D. Cook

I added these to the master tables above. Many come from contemporary science fiction.

Adidas	Aquinas	Bilbo			
Bones	bump	cabasa	Chekhov	Chewbacca	chimp
cobra	Cupid	Darth	dashiki		
Douthat (Ross)	Dudley	Ents	floss		
Frodo	Gimli	Gollum	Gorn	Han Solo	
Harry Mudd	Icarus	Jabba (the) Hutt	jacks	Kirk	Lando
Linus	Lysol				
parrot	Pepsi	phaser	Pluto	possum	
Sauron	sawzall	sax	Scottie	Shelob	shofar
socks	Spock	sweets			
Vader	wheelbarrow				