



V. Conclusion

For the data fetishists that constitute my prospective audience, I have included here four appendices, with examples of 62 of the 96 vigesimal rimes, and full particulars for the top 6 that I have discussed here. In addition, a list of all non-vigesimal rimes appears in Appendix B. That leaves only those 34 vigesimal rimes that I do not consider to have any significant phonosemantic coherence. I provide below a list of these, with their size.

All of the data for these and for the rimes in the Appendices were extracted from the database in the first instance. Semantic coding, however, is not part of the database; therefore, I am making the coded data available in a collection of 96 ASCII files, one for each vigesimal rime, archived on my Web site, at <http://www.umich.edu/~jlawler/rimes.zip>. I encourage anyone interested in this phenomenon, and their students, to download the database, and these data files, and second-guess me.

This kind of activity is especially interesting, I have found, for students, and it makes a splendid student project that can, if done carefully, provide significant information and generalizations. There are many, many more phenomena left to investigate here; and each one demonstrates what I consider the best-kept secret in America – that linguistics is fun.

Non-Coherent Vigesimal Rimes (rimes occurring in 20 or more simplex words)

-er	76	-et	37	-ig	30	-et	26	-ərn	22	-ev	20
-or	53	-ik	34	-in	29	-æł	26	-art	22	-ayr	20
-ay	45	-ak	32	-el	29	-en	26	-est	22	-ed	20
-ey	44	-aw	31	-id	28	-ek	26	-ayd	21	-id	20
-ok	40	-m	31	-al	28	-ev	25	-æs	21		
-el	37	-ut	31	-ən	27	-iz	24	-un	21		

Appendix A Vigesimal Rimes in Simplex Words, by Phonosemantic Coherence

Rime	Size	Coherence			Examples
		Num	Pct	Rank	
62 Coherent Rimes, with examples (often overlapping)					
-ap	31	27	87%	1	RL81 Ab Cess chop drop Ballistic topple hop Sep chop crop Impact plop bop
-ɔl	28	24	86	2	2D shawl sprawl wall Motion crawl brawl haul fall Contact maul trawl spall awl
-əb	34	29	85	3	1D Thick slub club chub stubble Dim shrub stub cub Pej flub lubber rubble
-əmp	26	22	85	4	RL81 3D rump hump lump clump stump Pej frump grump chump rumpus
-əŋk	22	18	82	5	Pej junk flunk bunk skunk drunk Hum punk lunk monk Aural clunk thunk plunk
-ɪp	41	32	78	6	2D+3D pip lip grip flip blip 2D-3D nip chip snip dip Dim sip yip tip ripple
-əg	31	24	77	7	Pej ugh ugly lug slug thug mug Fluid glug jug chug 3D Dim nugget snug
-ɪz	21	16	76	8	Separated/Dispersed/Multiple fizz drizzle schism sizzle dizzy Fluid jism chrism
-ɪŋk	34	25	74	9	Dim slink trinket tinker wink shrink dinky Dim Aural chink dink plink tinkle
-æk	47	33	70	10	2D Connected plaque stack bracket tacky Aural crack clack quack yack
-æg	39	27	69	11	Crooked/Broken snag zag crag sag rag 2D drag rag wagon swagger flag
-æf	25	17	68	12	RL81 Violent Contact bash trash crash thrash slash gash
-æŋ	27	18	67	13	1D Connected hang angle dangle tangle Aural jangle twang bang clang
-æp	30	20	66	14	RL81 2D flap clap lap map wrap Contact slap strap chap rap tap
-ɪŋ	32	21	66	15	RL81 Dir Force sling sting spring ring Dim Aural ping ding jingle lingo
-il	23	15	65	16	2D Motion peel feel wheel keel kneel seal heel
-es	20	13	65	17	1D Crossed fess wrestle trestle press chess wrestle trestle
-æt	53	34	64	18	(Tongue) 2D pat slat mat spatter flat Speech blat chatter spat prattle
-əf	31	19	61	19	2D Friction scuff snuff shuffle ruffle rough Indist Sens fluff muffle gruff
-ɪnt	20	12	60	20	Dim Multiple splinter glint hint lint sinter stint Visual/Eye glint squint
-æmp	22	13	59	21	2D Contact clamp cramp tamp damper ramp trample champ stamp scamper
-ab	34	20	59	22	3D Extrusion knob fob glob bobbin cobble gob cob blob
-ɪt	47	27	57	23	Dim spit whittle little kitten bit grit twitter ditty jitter critter
-ɪk	48	27	56	24	Dim 3D: Concave nick crick tick click flick hickey Convex prick wick tickle
-æb	34	20	56	25	Pej rabble drab shabby crab Speech blabber jabber babble gabble
-æm	35	19	54	26	2D Contact slam hammer flam clam cam Aural bam blam clamor stammer
-um	24	13	54	27	3D Interior/Expansion room womb tomb bloom tumor
-ez	26	14	54	28	2D Contact graze glaze blaze braze raze Indist Sens daze haze craze
-end	21	11	52	29	1D Non-Linear bend wend fend Mix/Fluid mend render blend
-ænd	31	16	52	30	1D+2D stand strand sandal band hand Pej bland vandal pander scandal
-ət	37	19	51%	31	3D Concave/Closure gut shut rut butt hut rut glut gutter putty shutter stutter

Diminutive, 2-Dimensional, 3-Dimensional, Indistinct Sensation, Pejorative, (Embodied Image)

Abrupt Cessation, Separate. RL81 = Rhodes, R. and J. Lawler, 1981. "Athematic Metaphors", CLS 17

Appendix A Vigesimal Rimes in Simplex Words, by Phonosemantic Coherence

Rime	Size	Coherence			Examples
		Num	Pct	Rank	
-əs	20	10	50%	32	Clothing/Stricture(?) <i>gusset hussy truss bustle muss gussy</i>
-i	41	20	49	33	Alphabet B C D E Closed Class 3 <i>he she we be</i>
-æŋk	31	14	45	34	Articulation/Body Part <i>flank ankle shank hank spank yank crank wank</i>
-ərɪk	21	9	43	35	Pej <i>irk lurk murk turkey jerk shirk smirk</i>
-ɔ	21	9	43	35	(Mouth/Tooth/Claw) <i>craw paw claw chaw jaw maw gnaw</i>
-ɪv	21	9	43	35	Dim Multiple <i>shiver quiver sliver sieve divot privet rivet</i>
-ɪm	26	11	42	38	2D <i>shim brim rim scrim skim shimmer swim</i>
-aɪt	38	16	42	39	Light <i>light bright white sight</i> Fight <i>fight smite bite</i> Up <i>height kite</i>
-ɪp	24	10	42	40	Vertical <i>steep teepee leap heap deep</i> Aural <i>bleep cheep peep</i>
-əd	25	10	40	41	Liquid <i>flood blood mud crud puddle rudder udder</i>
-ɪl	47	18	38	42	2D Concave <i>fill drill gill rill</i> 2D Convex <i>hill spill pillow frill billow quill</i>
-ək	26	10	38	43	Out/Off/Remove <i>shuck buck chuck duck pluck suck</i>
-o	44	16	36	44	2D Contact <i>bow blow flow floe grow hoe low mow sow sew snow loess</i>
-ər	39	14	36	45	Ind Sens <i>blur fur purr slurry slur scurry lurid</i>
-awt	23	8	35	46	Aggressive Contact <i>clout shout bout flout lout knout rout</i>
-ad	29	10	34	47	Earth/Contact/Movement <i>clod sod shod hod plod toddle dodder waddle</i>
-aɪn	30	10	33	48	RL81 1D (Plant) <i>twine vine bine pine cline line spline tine spine</i>
-en	42	14	33	49	1D <i>chain cane crane lane rein train vein</i> 2D <i>vane pane plain plane blain</i>
-up	25	8	32	50	RL81 Curve <i>scoop droop group hoop loop stoop swoop</i>
-ɪm	22	7	32	51	1D in 2/3D <i>beam gleam cream ream seam stream femur</i>
-ol	38	12	32	52	Round <i>knoll roll roly poly hole whole thole bowl boll bole bolo bolus</i>
-æn	23	7	30	53	2D <i>fan flan pan scan span panel banner</i>
-at	33	10	30	54	Dim Color <i>dot blot spot knot clot mottle blotto dottle jot slot</i>
-ot	23	7	30	55	2D Surface <i>float boat bloat moat lotus</i> (RL81 Water) <i>stoat throat</i>
-æd	31	8	26	56	2D Surface <i>plaid brad clad pad paddle saddle straddle ladder</i>
-əm	34	9	26	57	Pej <i>scum slum bum dumb glum crumb numb</i>
-ed	27	6	22	58	2D Contact <i>spread bed lead sled tread pedal</i>
-on	23	5	22	59	Noise <i>tone phone drone groan moan</i>
-ɪr	43	9	21	60	Face/Eye/Nose/Ear <i>sneer smear clear leer peer blear jeer ear hear</i>
-it	34	7	21	61	2D <i>cleat pleat skeet sheet seat peat beetle</i>
-u	60	12	20%	62	Liquid/Thick <i>goo flue dew brew glue slough sprue spew stew fluid sewer</i>

Diminutive, 2-Dimensional, 3-Dimensional, Indistinct Sensation, Pejorative, (Embodied Image)
Abrupt Cessation, Separate. RL81 = Rhodes, R. and J. Lawler, 1981. "Athematic Metaphors", CLS 17

Appendix B

Sub-Vigesimal Rime Sets, by size.

-ərl.....19	-og 13	-etf 10	-ayz.....7	-uv.....4	-uf.....3	-uð 2	-enʃ 1
-of.....19	-əp 13	-əz..... 10	-ars.....7	-elv.....4	-az3	-anʃ 2	-olm 1
-ark.....19	-eb 13	-ʊk 10	-uθ.....7	-ɔys4	-udʒ.....3	-ɪlf..... 2	-eʒ..... 1
-ərd.....19	-æv..... 13	-æz..... 10	-endʒ.....7	-ɪŋks.....4	-ɔyt.....3	-awndʒ... 2	-əθ..... 1
-ar19	-elt 13	-æks 10	-əθ 7	-af.....4	-oθ3	-emp 2	-aynθ 1
-ərt.....19	-ɔs 13	-əntʃ 10	-ərp 7	-ɛlp.....4	-əlf.....3	-ust..... 2	-æmf 1
-ep19	-ɔrd 13	-ɪʃ 10	-of 6	-ayð.....4	-eð3	-ɔyz 2	-əmpk 1
-is19	-əmb 13	-ɪf 10	-awnd.....6	-idʒ.....4	-ʊt.....3	-ərð 1	-aynt 1
-ɔrt.....19	-ɔy 13	-ub 10	-eg 6	-uf.....4	-əltʃ.....3	-aft 1	-ɪln 1
-ayl.....18	-ɪlt 13	-ɪns..... 10	-ɔyst 6	-əlk.....4	-ɪltʃ3	-əldʒ 1	-aŋst 1
-op.....18	-arn 12	-is..... 9	-ʊd.....6	-ɪð4	-eʃ3	-arθ 1	-ʊs 1
-uz18	-ens 12	-ɔrm 9	-əsk 6	-ɔrdʒ.....4	-ɛld3	-əlb 1	-ɪnθ 1
-æst.....18	-ɔk 12	-ɔrk 9	-arp 6	-ild.....4	-asp.....3	-etθ 1	-ampt 1
-ɪf.....18	-æf 12	-arm 9	-artʃ 6	-ɔrg.....4	-aps.....2	-awdʒ..... 1	-ets 1
-ɪmp.....18	-ag..... 12	-a..... 9	-ɛft 6	-ɔrf4	-ɔls.....2	-ɛdθ 1	-ɛpθ..... 1
-ɪb.....18	-ɔn 12	-ɪntʃ..... 9	-ərst.....6	-ɪʃ 4	-os 2	-əlt 1	-uʒ..... 1
-ɪtʃ18	-ənt 12	-æft 9	-olt 6	-ant 4	-eθ 2	-uz 1	-ædz 1
-aym18	-ard 12	-aynd 9	-əndʒ.....6	-ɪlk.....4	-æps.....2	-uy 1	-alv 1
-ayk18	-ayf 12	-and..... 9	-ɪks 6	-ɔrb.....4	-ɪlθ.....2	-ændʒ..... 1	-ekʃ 1
-ænt18	-ɪnd 12	-aws 9	-ɛpt.....6	-aŋk4	-ɪrs 2	-æptʃ 1	-æʒ 1
-es.....18	-ɔyl 12	-ig 9	-ərg.....6	-ɪθ.....4	-aŋ 2	-əlb 1	-ɔlm 1
-æns.....18	-ɔrs 12	-ʊr 9	-ɔz 6	-ɪmb.....4	-ayst 2	-ɔlk 1	-oldʒ 1
-am17	-old 12	-ərtʃ..... 9	-ʊl..... 6	-ænθ 3	-ərz 2	-ɪmps 1	-endʒ 1
-əst.....17	-ɛp..... 11	-ənd..... 9	-ərf 5	-əntʃ.....3	-əns.....2	-ɛrn 1	-ers 1
-ek17	-ɛdʒ..... 11	-oʃ 8	-ɛks 5	-as..... 3	-aθ 2	-ɔlf 1	-əmpʃ 1
-ul17	-ərb 11	-awns 8	-ekt 5	-empt.....3	-ɔrp.....2	-ɪfθ..... 1	-ɪkt 1
-ɪst.....17	-æmb 11	-awn..... 8	-æð 5	-emb.....3	-ɛsp.....2	-ɔrps 1	-ɔp..... 1
-ɪdʒ.....17	-ɪsk 11	-æsp 8	-adʒ..... 5	-æpt 3	-əks.....2	-ənz 1	-ad 1
-ədz16	-entʃ 11	-ækt..... 8	-arv 5	-awst 3	-ɔyŋ 2	-əts 1	-arð 1
-ud16	-ɔg..... 11	-ətʃ 8	-eθ 5	-əlp 3	-ɔynt.....2	-ɔyb 1	-ərps..... 1
-ent16	-aks 11	-eʃ 8	-awr..... 5	-ɛlk 3	-ɪʒ 2	-ɪmz 1	-ælk 1
-ɪtʃ16	-om 11	-ɔnt..... 8	-ans 5	-ɔft.....3	-ɪmf 2	-ɔm 1	-ayg 1
-əʃ16	-an 11	-awnt 8	-ɛf..... 5	-ɔld.....3	-anz 2	-ɪlm 1	-ælks 1
-em15	-awd 11	-arb 8	-æθ 5	-ɪld.....3	-əft.....2	-apt 1	-eps 1
-iv15	-oz 11	-ərθ 8	-ɔntʃ 5	-ayld.....3	-awθ 2	-ɪldʒ 1	-ɪkst 1
-əl15	-ɪft..... 11	-ob 8	-iθ 5	-əlp 3	-ɛŋθ 2	-alm 1	-ərʒ 1
-ayv15	-ɔrn 11	-ɛb 8	-ɛf..... 5	-ə 3	-ɛltʃ.....2	-əkt 1	-ælv 1
-ays.....15	-aʃ 11	-ost..... 8	-ib 5	-arf 3	-ɛnθ 2	-ayθ 1	-ərld 1
-ɔŋ15	-əŋ..... 11	-ið 8	-otʃ 5	-ɛsk.....3	-ɪpt.....2	-ɪkʃ 1	-ɪdθ 1
-us15	-atʃ..... 11	-utʃ 8	-ʊʃ 5	-ʊf.....3	-ɪts 2	-ug 1	-ɔlts 1
-ərdʒ.....15	-awl 10	-ɪst..... 8	-æks..... 5	-ɛlθ 3	-oð 2	-əð 1	-ɔrmθ 1
-ayp14	-ɪndʒ 10	-awtʃ 8	-ɔst 5	-ɔrθ 3	-oks 2	-eg 1	-ʊlf 1
-od14	-arl 10	-uk 7	-ɛlm..... 5	-ekst 3	-ɪsm 2	-etʃ 1	-und 1
-ov14	-edʒ..... 10	-est 7	-ug..... 5	-amb..... 3	-ɔyd 2	-ɔnd 1	-awndz... 1
-ərs14	-ɔt 10	-æsk 7	-ɔyn 5	-ɔrtʃ 3	-ɪrd..... 2	-ɪnd 1	
-ərm.....14	-ərv 10	-ædz 7	-arg..... 4	-ɛʒ 3	-av 2	-əlkt 1	
-əv14	-ɔd 10	-ent 7	-ardʒ..... 4	-ast 3	-ɔʃ 2	-ənθ 1	
-ætʃ.....14	-awz 10	-ɔlt 7	-ɛlf 4	-enz 3	-ɔb 2	-ænʃ 1	
-em13	-ayb 10	-amp 7	-arʃ 4	-ɪsp 3	-antʃ.....2	-əsp 1	

Data from Lawler-Rhodes Simplex Word Database <http://www.umich.edu/~jlawler/monosyl.zip>

Appendix C

Snapshots of the 3 Most Coherent Rime Sets

-ap 31 words 27 coherent Coherence Level 87% Rank 1

Category	1	abrupt cessation of motion (RL81)	16	<i>stop drop flop chop</i>
	2	ballistic motion (RL81)	14	<i>drop chop bop flop</i>
	3	separate/cut	14	<i>crop chop lop topple</i>
	4	impact	14	<i>whop plop clop bop</i>
	5	vertical orientation	12	<i>drop hop top prop</i>
	6	pejorative	9	<i>wop fop slop glop</i>
	7	acoustic image	4	<i>clop bop pop whop</i>
	8	fluid	5	<i>drop slop mop glop sop</i>

Word	Ass	Rime	Suf	1	2	3	4	5	6	7	8
<i>chop</i>	tʃ	ap		√	√	√	√	√			
<i>lop</i>	l	ap		√	√	√	√	√			
<i>drop</i>	dr	ap		√	√	√	√	√			√
<i>topple</i>	t	ap	-əl	√	√	√	√	√			
<i>plop</i>	pl	ap		√	√	√	√	√	√		
<i>clop</i>	kl	ap		√	√	√	√			√	
<i>pop</i>	p	ap		√	√	√	√			√	
<i>strop</i>	str	ap		√	√	√	√				
<i>bop</i>	b	ap		√	√		√			√	
<i>whop</i>	hw	ap		√	√		√			√	
<i>flop</i>	fl	ap		√	√		√		√		
<i>hop</i>	h	ap		√	√		√	√			
<i>top</i>	t	ap		√	√	√		√			
<i>crop</i>	kr	ap		√		√		√			
<i>prop</i>	pr	ap				√		√			
<i>sop</i>	s	ap			√	√			√		√
<i>slop</i>	sl	ap			√	√	√		√		√
<i>mop</i>	m	ap						√			√
<i>glop</i>	gl	ap							√		√
<i>hopper</i>	h	ap	-ər				√	√			
<i>cop</i>	k	ap		√		√					
<i>stop</i>	st	ap		√		√	√	√			
<i>swap</i>	sw	ap		√							
<i>wop</i>	w	ap							√		
<i>fop</i>	f	ap							√		
<i>op</i>		ap							√		
<i>copper</i>	k	ap	-ər						√		
<i>shop</i>	ʃ	ap									
<i>proper</i>	pr	ap	-ər								
<i>topic</i>	t	ap	-ək								
<i>tropic</i>	tr	ap	-ək								

Appendix C

Snapshots of the 3 Most Coherent Rime Sets

-ɔl 28 words 24 coherent Coherence Level 86% Rank 2

Category	1	contact	16	<i>crawl spall brawl maul</i>
	2	2-Dimensional	15	<i>scrawl trawl shawl wall</i>
	3	motion	13	<i>squall trawl haul fall</i>
	4	expanse	12	<i>sprawl mall hall all</i>
	5	horizontal orientation	8	<i>trawl haul hall sprawl</i>
	6	vocal image	3	<i>call bawl drawl</i>

Word	Ass	Rime	Suf	1	2	3	4	5	6
<i>crawl</i>	kr	ɔl		√	√	√	√	√	
<i>scrawl</i>	skr	ɔl		√	√	√	√	√	
<i>sprawl</i>	spr	ɔl		√	√	√	√	√	
<i>trawl</i>	tr	ɔl		√	√	√	√	√	
<i>squall</i>	skw	ɔl		√	√	√	√		
<i>haul</i>	h	ɔl		√	√	√		√	
<i>spall</i>	sp	ɔl		√	√	√			
<i>maul</i>	m	ɔl		√	√	√			
<i>shawl</i>	ʃ	ɔl		√	√		√		
<i>wall</i>	w	ɔl		√	√		√		
<i>pall</i>	p	ɔl		√	√		√	√	
<i>awl</i>		ɔl		√	√				
<i>brawl</i>	br	ɔl		√		√	√		
<i>pawl</i>	p	ɔl		√		√			
<i>fall</i>	f	ɔl		√		√			
<i>gall</i>	g	ɔl		√					
<i>yawl</i>	y	ɔl			√	√			
<i>hall</i>	h	ɔl			√		√	√	
<i>mall</i>	m	ɔl			√		√	√	
<i>ball</i>	b	ɔl				√			
<i>all</i>		ɔl					√		
<i>call</i>	k	ɔl							√
<i>bawl</i>	b	ɔl							√
<i>drawl</i>	dr	ɔl							√
<i>small</i>	sm	ɔl							
<i>stall</i>	st	ɔl							
<i>tall</i>	t	ɔl							
<i>thrall</i>	pr	ɔl							

Appendix C

Snapshots of the 3 Most Coherent Rime Sets

-əb 34 words 29 coherent Coherence Level 85% Rank 3

Category 1 pejorative 21 *bub glub lubber rubbish stubble*
 2 1D thick 13 *snub stub slub nub club tubby*
 3 diminutive 11 *shrub cub stub hubby cubby*

Word	Ass	Rime	Suf	1	2	3
<i>shrub</i>	ʃr	əb		√	√	√
<i>drub</i>	dr	əb		√	√	√
<i>grub</i>	gr	əb		√	√	√
<i>stubble</i>	st	əb	-əl	√	√	√
<i>chub</i>	tʃ	əb		√	√	√
<i>dub</i>	d	əb		√	√	
<i>snub</i>	sn	əb		√	√	
<i>tubby</i>	t	əb	-i	√	√	
<i>cub</i>	k	əb		√		√
<i>rubble</i>	r	əb	-əl	√		√
<i>stub</i>	st	əb			√	√
<i>blubber</i>	bl	əb	-ər	√		
<i>bub</i>	b	əb		√		
<i>flub</i>	fl	əb		√		
<i>grubby</i>	gr	əb	-i	√		
<i>hubba</i>	h	əb	-ə	√		
<i>lubber</i>	l	əb	-ər	√		
<i>rub</i>	r	əb		√		
<i>rubbish</i>	r	əb	-əʃ	√		
<i>scrub</i>	skr	əb		√		
<i>trouble</i>	tr	əb	-əl	√		
<i>tub</i>	t	əb		√		
<i>club</i>	kl	əb			√	
<i>hub</i>	h	əb			√	
<i>nub</i>	n	əb			√	
<i>slub</i>	sl	əb			√	
<i>bubble</i>	b	əb	-əl			√
<i>cubby</i>	k	əb	-i			√
<i>hubby</i>	h	əb	-i			√
<i>double</i>	d	əb	-əl			
<i>glub</i>	gl	əb				
<i>pub</i>	p	əb				
<i>rubber</i>	r	əb	-ər			
<i>sub</i>	s	əb				

-əmp 22/26 = 85% Rank 4 [overlap 1]

1) <u>R&L81 3-D (15)</u> <i>bump clump</i> <i>dump plump</i> <i>hump slump</i> <i>jump stump</i> <i>lump rump</i> <i>lump rumple</i> <i>rump crumple</i> <i>sump tump</i> <i>mump</i>	2) <u>Pejorative (7)</u> 2a) <u>Personal</u> 2b) <u>Aural</u> <i>chump</i> <i>crump</i> <i>frump</i> <i>thump</i> <i>grump</i> <i>trumpet</i> a&b) rumpus	3) <u>Residue (4)</u> <i>pump</i> <i>trump</i> <i>compass</i> <i>crumpet</i>
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-əŋk 18/22 = 82% Rank 5 [overlap 4]

1) <u>Pejorative (12)</u> <i>bunco funk</i> <i>lunk</i> <i>bunk junk</i> <i>punk</i> <i>drunk skunk</i> <i>spunk</i> <i>flunk</i> clunk thunk	2) <u>Human(oid) (5)</u> <i>monk uncle</i> <i>monkey</i> plunk 3) <u>Noise (3)</u>	4) <u>Piece (2)</u> <i>hunk</i> <i>chunk</i>	5) <u>Residue (4)</u> <i>bunker</i> <i>dunk</i> <i>hunker</i> <i>trunk</i>
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-ɪp 32/41 = 78% Rank 6 [large overlap]

1a) <u>Convex/Up</u> <u>[+3D] (18)</u> <i>skip zipper flip</i> <i>zip drip blip</i> <i>trip cripple clip</i> <i>hip grip</i> <i>pip stipple</i> tip <i>lip nipple</i> ripple <i>nipper</i> slip <i>yip</i> nip <i>kipper</i> dip <i>quip</i>	3) <u>Residue (9)</u> <i>whip hippie yippee</i> <i>ship triple tipple</i> <i>gyp chipper skipper</i>
1b) <u>Concave/Down</u> <u>[-3D] (10)</u> nip dip strip chip	2) <u>Diminutive (13)</u> scrip slipper snip sip rip snippet