

VOWEL PATTERNS IN THE OED

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In most words, the arrangement of the five major vowels A, E, I, O and U, irrespective of the consonants, does not follow any particular pattern. In some words, however, vowels do exhibit specific patterns. We have met words with the five vowels in alphabetical order (WW98037, 98115, 99262, 2002314 and 2004054) and in reverse alphabetical order (2001313 and 2002316). Old MacDonald's EIEIO words, such as PERIHELION, have also appeared in Word Ways (86221 and 87024). Words exhibiting other special vowel patterns appear to have been largely overlooked. These include words with tautonymic vowel patterns (123123 etc.), palindromic vowel patterns (12321 etc.) and consecutive doubled vowel patterns (112233). Examples of words exhibiting these, and other, vowel patterns are given below. No extraneous vowels are allowed. My selections are confined to examples containing at **least three of the five major vowels**. The letter Y is treated as a consonant. Palindromes and tautonyms are excluded. I have searched for examples with vowel patterns ranging from 5 vowels to 8 vowels. An example is given for each of the different vowel permutations (perms) wherever possible. In view of the fact that the material for this article is taken from a single source - the Oxford English Dictionary, Second Edition - I admit both words and phrases. Here is a summary of the results:

Type of vowel pattern	No. of vowels	Possible patterns	Possible perms	Perms for which an example was found
Tautonymic	6	1	60	51
	8	7	480	27
Palindromic	5	1	60	60
	6	1	60	46
	7	7	480	103
	8	7	480	13
Doubled	6	1	60	28
Progressive	6	2	120	62
Miami	5	1	60	60

TAUTONYMIC VOWEL PATTERNS

6-vowel pattern

123123 (examples found for 51 of the 60 perms)

This is the only tautonymic pattern that can be made from a group of 6 vowels which includes 3 different vowels.

There are 12 vowel trigrams beginning with each of the 5 vowels, excluding trigrams with a repeated vowel. In the case of the vowel A, these are aei, aeo, aeu, aie, aio, aiu, aoe, aoi, aou, aue, aui, auo. Thus there is a total of 12×5 (vowels) = 60 perms of the vowel pattern 123123. Note that the 6 vowels occur as a group in the word ZOUAOUA* (ouaoua).

aeiaei	AMERICAN-ENGLISH	aeoaeo	WHALE-OF-A-FELLOW	aeuaeu	CALENDULACEUM
aieaie	ALLITERATIVE	aioaio	ARIOLATION	aiuaui	ANTIQUARIUM
aoeaoe	CARMOESALOE	aoiaoi	MACROPINACOID	aouaou	TALCOQUARTZOUS
aueaue	ACQUEYNTAUNCE	auiaui	CAURIMAURI	auoauo	
eaieai	HERACLITEANISM	eaoeao	MERCAPTOETHANOL	eaueau	TREASURE-VAULT
eiaeia	SEPTICAEMIA	eioeio	SEMI-CONNECTION	eiueiu	MEI-KUEI-LU
eoaeoa	SEOFANTEOPAN	eoieoi	CERCOPITHECOID	eoueou	ENCUMBEROUS
euaeua		euieui	SESQUI-JESUIT	euoeuo	PLEURO-PNEUMONY
iaeiaie	INAPPRECIABLE	iaoiao	DIANOIALOGY	iauiau	INAUSPICAT-US
ieaiea	INTERPARIETAL	ieoieo	TITHE-PROPRIETOR	ieuieu	IMPÉCUNIEUX
ioaioa	VIOLATIONAL	ioeioe	ISOTENISCOPE	iouiou	IMPOSTURIOUS
iuaiua	INMUTATIUA	iueiue	DIURETIQUE	iuoiuo	
oaeoae	OBLANCEOLATE	oaioai	VOCATIONALISM	oauoau	
oeaoea	OERANG-OETAN	oeioei	POTENTIOMETRIC	oeuoeu	TO GET UPON THE SKUFF
oiaioia	COMBINATORIAL	oieoie	TONSILLECTOMIES	oiuoiu	CONTRIBUTORI-US
ouaoua	ZOUAOUA*	oueoue	COURTEOUSNESS	ouioui	SOUJI-MOUJI
uaeuae	UNADEQUATE	uaiuai	ULTRA-RITUALISM	uaouao	
ueauea	SUBTERAQUEAN	ueiuei	HUDDERIN-DUDDERIN	ueoueo	
uiauia		uieui	CURLIE-WURLIE	uiouio	UNDISSOLUTION
uoauoa		uoouoe		uoiuoi	β-D-GLUCOSIDURONIC

8-vowel patterns

With 8 vowels, there are 7 different tautonymic patterns which can be made which include 3 different vowels. 6 of the 7 patterns exhibit 3 different vowels, the other 4 different vowels. They are: 11231123 (60 perms), 12131213 (60), 12231223 (60), 12311231 (60), 12321232 (60), 12331233 (60) and 12341234 (120). This makes a total of 480 eligible 8-vowel tautonymic permutations. Examples, covering all 7 patterns, were found for 27 of these:

11231123 (3 of the 60 perms)

eeaiecai GENERATIVE-SEMANTIC
ooieooie TOOTSIE-WOOTSIE
uuaouuao UUALTO-UUAHSO

12131213 (1 of the 60 perms)

oeieoei THE OTHER SIDE OF THE HILL

12231223 (4 of the 60 perms)

aiieaie ANILINE CHRYSANILINE
eooieooi ECOLOGIC-ECONOMIC
iooeiooe PHILOSOPHER'S PHILOSOPHER
uiieuiie QUININE-PURIFIER

12311231 (4 of the 60 perms)

aieaaiea CAISTEALNAN-GILLEAN
eaueeaue LEAUETENAUNTE
oeuooeuo TO RETURN TO ONE'S MUTTONS
uiouuiou FURIOUS-CURIOUS

12321232 (4 of the 60 perms)

aeoeaeoe SNAKE-LOCKED ANEMONE
 euoueuou PSEUDOTUBERCULOUS
 oaeaoaea TO APPEAL TO CAESAR
 oeaeoeae TO BE A PERSON'S EASE

12331233 (2 of the 60 perms)

aiooaioo SALPINGO-OVARIOTOMY
 ioeeioee MIOCENE-PLIOCENE

12341234 (9 of the 120 perms)

This is the only tautonymic pattern which can be made from a group of 8 vowels which includes 4 different vowels.

There are 24 vowel tetragrams beginning with each of the 5 vowels, excluding tetragrams with a repeated vowel. In the case of the letter A, these are aeio, aei, aeoi, aeou, aeui, aeuo, aieo, aieu, aioe, aiou, aiue, aiuo, aoei, aoie, aoiu, aoie, aoui, auei, aueo, auie, auio, auoe, auoi. Thus there is a total of 24×5 (vowels) = 120 perms of the vowel pattern 12341234.

auieauie ACQUIETAUNCIES

eaioeai THE ARMPIT OF THE NATION eaoieaoi TETRAPLOID-HEXAPLOID euaieuai SECULAR INEQUALITY

iauoiauo TRIANGULO-TRIANGULOS

oeaioeai TO GET A THING ON THE BRAIN oiaeoiae TO BID A PERSON MISCHANCE ouieouie ROULIE-POULIE

uaoeuaoe JUXTAGLOMERULAR COMPLEX

PALINDROMIC VOWEL PATTERNS**5-vowel pattern****12321 (60 of the 60 perms)**

This is the only palindromic vowel pattern which can be made from a group of 5 vowels which includes 3 different vowels.

aeiea WHALEFISHERMAN aeoea CATEGOREAL
 aioia ABIOTICALLY aiuia LATITUDINAL
 aouoa PARLOUR-ORGAN aueua HARQUEBUSAR

eaiae DETAINABLE eaoae REALLOCATE
 eioie LEXICONIZE eiuie EXTINGUISHED
 eouoe DEXTRO-GLUCOSE euaue RECURVATURE

iaeai BILATERALISM iaoai DIAGONALITY
 ieoei DISEMBOWELLING ieuei SINECURESHIP
 iouoi IROQUOIS iuau i INCUNABULIST

oaeao CONCATENATOR oaiao CONTAMINATOR
 oeieo PRO-EPIMERON oeueo TOPSEYTURVEYDOM
 oiui o CONSTITUTION ouauo POQUAUHOCK

uaeau QUARREAUS uaiau QUADRIDACTYLUS
 ueieu UNBELIEFFUL ueoeu UNREMORSEFUL
 uiioi LUBRITORIUM uoaou UROPHANOUS

aeuea CAERULEAN aieia GALILEIAN
 aoiea ABOVE-BOARD aoioa ADOPTIONAL
 auiaa MANUSCRIPTURAL auoua SCAPULO-ULNAR

eauae EARTHQUAKE eiaie BESTIALIZE
 eoaoe REFORMADOES eoioe DEOXYRIBOSE
 euiue SESQUIDUPLE euoue CREDULOUSNESS

iauai INFATUATING ieaei MISCELLANEITY
 ioaoi DIPLOHAPLONTIC ioioi RHINOCEROID
 iueui LIQUEURING iuoui CIRCUMLOCUTY

oauao SOMNAMBULATOR oeaeo DODECAHEDRON
 oiaio COGITATION oieio LONGISECTION
 oueuo TROUSER-BUTTON ouiio LOCUS IN QUO

uaoau ULTRAMONTANUS' ueaeu UNPEACEFUL
 uiiai QUINARIUS uieiu UILELIUGH
 uoeou UNPROSPEROUS uoioi UNCONSCIOUS

6-vowel pattern*123321* (46 of the 60 perms)

This is the only palindromic pattern which can be made from a group of 6 vowels which includes 3 different vowels. Note that the pattern exhibits a central doubled vowel, as is the case with all palindromic vowel patterns having an even number of vowels.

aeiiea	WHAT'S THE BIG IDEA?	aeooea	ALVEOLO-DENTAL	aeuuea	
aieeia	PALINGENETICALLY	aiooia	ABIOLOGICAL	aiuuia	
aoeeoa	CALL OVER THE COALS	aoiioa	TRANSPOSITIONAL	aouuo	TAMBOUR CUPBOARD
aueeua	VALUE-NEUTRAL	auiiua	ALUMINIUM BRASS	auooua	
eaiaie	DECLASSIFIABLE	eaooae	REACCOMMODATE	eauuae	REACCUMULATE
eiaaie	EPIGRAMMATIZE	eiooie	CHEIROLOGIES	eiuuie	SEMI-LUXURIES
eoaaoe	ECOCATASTROPHE	eoiiie	DECOMMISSIONED	eouuo	
euaaue	EQUAL VALUE	euiiue	PLEURITIQUE	euooe	PSEUDOLOGUE
iaeeai	DISAGREEABLISM	iaooai	DISACCOMMODATING	iauuai	INAUGURATING
ieaaei	THIRD SHEAF AND TEIND	ieooei	IDEOPHONETICS	ieuuei	
ioaaoi	MICROANATOMIST	ioeeoi	ISOELECTRONIC	iouuoi	
iuaaui	VISUAL ACUITY	iueeui	CLIQUE-SECURING	iuooui	IMMUNOGLOBULIN
oaeceo	ORANGE-BERGAMOT	oaiiao	NON-PARTICIPATORY	oauuao	
oeaaeo	TO BE AWARE OF	oeiieo	BRONZE-WING PIGEON	oeuueo	
oiaaio	COMING-ATTRACTIONS	oieeio	NON-INTERVENTION	oiuuio	
ouaaou	TO PUT A SHAM UPON	oueeuo	TOLUENESULFONYL	ouiio	
uaeeau		uaiiau	QUALIFICATUM	uaooau	
ueaaeu	SUPERVACANEUS	ueiieu	JUSTE MILIEU	ueooeu	UNBEHOOVEFULL
uiaaiu	FUNDILABARIUS	uieeiu	GUINEESIUM	uiioiu	UNICORN OMNIBUS
uoaaou		uoeeou		uoioiu	UNSOLICITOUS

7-vowel patterns

The majority of the examples which exhibit 5- and 6-vowel palindromic patterns (above) are either solid words or hyphenated words. On the other hand, a greater proportion of the examples exhibiting 7(+) vowel palindromic patterns (below) are either hyphenated words or phrases. This is because of both the increased number of vowels, and the increased number of consonants required to accommodate the vowels.

With 7 vowels, there are 7 different palindromic patterns which can be made which include 3 different vowels. As in the case of 7-vowel tautonymic patterns, 6 of the 7 patterns use 3 different vowels, the other uses 4 different vowels. They are: 1123211 (60 perms), 1213121 (60), 1223221 (60), 1231321 (60), 1232321 (60), 1233321 (60), 1234321 (120). Examples were found for 103 of the 480 7-vowel palindromic perms.

1123211 (7 of the 60 perms)

aaeieaa	BANDARSERIBEGAWAN	eeiaiee	DETERMINATIVENESS	eeioiee	PERFECTIONIZEMENT
eeiaiee	WHEEL-CHAIR ATHLETE				
eeoaoee	ELECTRO-DYNAMOMETER				
ooaeao	SON OF A SEA-COOK	ooieioo	COMPOSITE HIGH SCHOOL		

1213121 (13 of the 60 perms)

aiaeaia	PARLIAMENTARIAN	auaoaua	ANNUAL OF ANNUAL		
eaēieae	WEATHER-WISEACRE	eaeoeae	ELAEOCERATE	eaeueae	TREACLE-BUTTER-CAKE
eieoeie	REGIMENT OF THE LINE	eieueie	VENICE TURPENTINE	eoaeoe	THE ONE AND THE OTHER
iaieiai	INTRACLITELLIANI	iaioiai	ISATIN BROMISATIN	iuioiui	ILLUSION-DISTURBING
oeouoeo	ONE OUT OF THE BOX	oioaoio	GOCCIOLATOIO		

1223221 (4 of the 60 perms)

aeeoeea	GRACE BEFORE MEALS		
eaaoaae	METACARPO-PHALANGES	eiioiie	RELIGIOSITIES
ioouooi	VIGOROUS-LOOKING		

1231321 (18 of the 60 perms)

aieaeia	ANTI-EVANGELICAL	aioaoia	VAGINO-ABDOMINAL	aoiaioa	ASSOCIATIONAL
eaieiae	HEXACTINELLIDAE	eauēuae	PREMATURE PUBARCHE	eiaeaie	ELIZABETHANIZE
eoaeaoe	SECONDARY SPERMATOCYTES	euaeaue	REGULARLY-FEATURED	euieiue	EXPULSIVE VIRTUE
ioeieoi	PHILO-PERISTERONIC	iuaiui	VISUAL DISPLAY UNIT		
oaeoeao	TO SAVE ONE'S BACON	oaioiao	FLOATING COLLIMATOR	oeaoaeo	TO EVAPORATE TO
oiaoaio	OPTICAL ROTATION	oieoeio	HOLINESS CONVENTION	oiuouio	CONTINUOUS IMPOST
uiauaiu	PURIS NATURALIBUS				

1232321 (15 of the 60 perms)

aieieia	ANTIPESTILENTIAL	aioioia	TRAGICO-HISTORICAL		
eaiaiae	HEATING APPLIANCE	eaoaoae	MELANOCHALCOGRAPHER	eiaiaie	DE-ITALIANIZE
eauauae	DESAUAUNTAGE	euououe	SENSUOUSLY-MOULDED		
oaeaeao	TO HAVE A HEAD FOR	oeieieo	BRONZE-WINGED PIGEON	oiaiaio	HOSPITALIZATION
oieieio	MORPHINE INJECTION	oiuiuiio	CONTINUITY STUDIO		
uaiaiaiu	QUADRIFASCIATUS	ueieieiu	BUTTERFLIES IN THE TUMMY		
uiaiaiu	FULMINATING PLATINUM				

1233321 (14 of the 60 perms)

aeooooea	ALVEOLO-CONDYLEAN	aieeeeia	ANTIPREDETERMINANTS	aiooooia	RADIOCOLLOIDAL
eaiaiae	PENTACRINITIDAE	eaooooae	MEGAZOOSPORANGE	eioooie	FREIGHT LOCOMOTIVE
iaeeeeai	PRIVATE SECRETARYSHIP	ieaaaei	VIDENSKAPS-AKADEMI		
oaeeeeao	TO MAKE DEFEAT OF	oaiiiao	PROBABILIFICATORY	oeaaaeo	TO STEAM A LABEL OFF
oieeeeio	TO GIVE THE REINS TO				
uaiiiaiu	QUADRIDIGITATUS	uoiiioiu	SUPPOSITITIOUSLY		

1234321 (32 of the 120 perms)

This is the only palindromic pattern which can be made from a group of 7 vowels which includes 4 different vowels.

aeioiea	ARYEPIGLOTTIDEAN	aeoioea	AT THE POINT OF DEATH	aeouoea	AS GREYHOUND OF LEASH
aieoeia	ANTITHEORETICAL	aioeoia	ANISOMETROPIA	auioiua	AUDIO-VISUAL
eaioiae	METANTIMONIATE	eaiuiae	REAR-ILLUMINATE	eauiaue	BEAUTIFULLY-MADE
eauouae	BEAT-UP OF QUARTERS	eiaoaie	MEDIAL MORaine	eiauaie	SEMI-NATURALIZED
eioaoie	PETTICOATBODICE	eoiaioe	EXORCIZACIONES	euaiaue	NEURAMINSAURE

euiaieue	ENUNTIATIEUE	euioiue	EQUIPOISURE	euoioue	DEUOTIOUNE
ieuouei	VNPITEUOUSNESSIS	ioaeaoi	IRON-HAEMATOXYLIN	ioauaoi	INDO-AUSTRALOID
iouauoi	WITHOUT AUTHORITY				
oeauaeo	POMERANCHUK TRAJECTORY	oiaeaio	CONICAL REFRACTION	oiauaio	COGITABUNDATION
oieaeio	TO GIVE A WEIGHT TO	oieueio	NOISE SUPPRESSION	oueaeuo	TO PUT THE CHANGE UPON
uaeoEAU	SQUARE OF PEGASUS	ueioieu	QUERIMONIEUX	uioaoiu	FUSION PLASMODIUM
uoEaeou	UNCONSENTANEOUS	uoiaiou	SUBORDINACIOUN	uoieiou	UNCONSCIENTIOUS

3 of the above 7-vowel patterns include one or more doubled vowels (1123211, 1223221 and 1233321). The first 2 of these produce markedly fewer examples than any of the other patterns.

8-vowel patterns

With 8 vowels, there are 7 palindromic patterns (the same number as with 7 vowels - above) which include 3 different vowels. They are: 11233211 (60), 12133121 (60), 12233221 (60), 12311321 (60), 12322321 (60), 12333321 (60), 12344321 (120). As with the 6-letter vowel pattern 123321, all 7 patterns incorporate at least one doubled vowel. With the increased number of vowels, and the presence of at least one doubled vowel, we would not expect to find so many examples. This proved to be true. Examples, covering 6 of the 7 patterns, were found for just 13 of the 480 perms.

11233211 (1 of the 60 perms)

eeiooiee RECEPTION-COMMITTEE

12233221 (2 of the 60 perms)

eoiiiooe YELLOW-CONIDIOSPORED

oiieeiio POSITIVE PRESCRIPTION

12322321 (2 of the 60 perms)

oiaiaiao FORISFAMILIATION

oiuiiuio OMNIBUS-INSTITUTIONS

12344321 (4 of the 60 perms)

This is the only palindromic pattern which can be made from a group of 8 vowels which includes 4 different vowels.

aioeeoia RADIO-TELEPHONICALLY

ieauuaeI INTERNAL JUGULAR VEIN

12133121 (1 of the 60 perms)

eaEOoeae LEAVE-LOOKERAGE

12311321 (3 of the 60 perms)

eaieeiaE NEGATIVE-RESISTANCE

euaeEaue NEUTRAL TEMPERATURE

oiaooaio ROBIN ACCOMMODATION

12333321

None found

oiaeeaoi HOSPITAL-SEGREGATION

oiauuaoi OIL-ACCUMULATION

DOUBLED VOWEL PATTERNS

The vowels in some words occur in like-pair order. Where there is a total of 6 vowels that include 3 different vowels, the vowel pattern is **112233**. My favourite, REPEATABILITY (eeaaII), is obviously aware of its vowel pattern.

There are 12 perms of 112233 beginning with each of the five vowels, making 60 perms in all. Examples were found for 28 of these. The perms in which the successive like-pairs of vowels are in vowel alphabetical, or reverse alphabetical, order are underlined.

<u>aaeeii</u>	ANAESTHETIZING	<u>aaeeoo</u>	PALAEETHNOLOGY	<u>aaiee</u>	MALADMINISTERED
<u>aiiiuu</u>	PARASITIC FUNGUS	<u>aaooee</u>	THALAMOCOELE	<u>aaooii</u>	LAPAROTOMIZING
<u>eeaaai</u>	REPEATABILITY	<u>eeaaoo</u>	REHEARSAL ROOM	<u>eeaaui</u>	PEPPER-AND-SALT FUNDUS
<u>eeiiaa</u>	SWEET-WILLIAM CATCHFLY	<u>eeiiio</u>	TELEVISION SHOW	<u>eeooii</u>	ELECTROTONICITY
<u>iaaaee</u>	PRINCIPAL CHALLENGE	<u>ieeaa</u>	PRIVILEGED ALTAR	<u>ieeoo</u>	WINNIE THE POOH
<u>iiioee</u>	IDIOPHONEME				
<u>ooaaee</u>	CHLOROMANGANESE	<u>ooaaai</u>	HOLOPARASITIC	<u>ooeeaa</u>	MOOSE-HEAD PLANT
<u>ooeeii</u>	PHOTO-ELECTRICITY	<u>ooiiaa</u>	HONORIFICATA	<u>ooiee</u>	HONORIFICENCE
<u>ooouee</u>	COLOUR SUPPLEMENT				
<u>uuaaee</u>	UNGUARANTEED	<u>uuaaii</u>	MUTUAL AFFINITY	<u>uueeaa</u>	RUKUT-BEEJ-DANA
<u>uiiiee</u>	UNSUFFICIENCY				

Readers might like to extend the OED search to examples with 4 different like-pairs of vowels such as TELEVISION BROADCAST (eeiiioaa) and MALAYO-PORTUGUESE (aaouuee).

PROGRESSIVE VOWEL PATTERNS

Vowel patterns may take the form of an increasing sequence **122333**, or a decreasing sequence **111223**. As previously, the perms in which the vowels occur in vowel alphabetical, or reverse alphabetical, order, are underlined.

122333 (31 of the 60 perms)

<u>aeiiai</u>	APPREHENSIBILITY	<u>aeoooo</u>	AETEOWODON	<u>aiiee</u>	CAITIFEHEDE
<u>aiiooo</u>	PAVILION-ROOF	<u>aooeee</u>	BALLOON-SLEEVE	<u>auueee</u>	PAST-FUTURE-PERFECT
<u>eaoooo</u>	SPEAK-A-WORD ROOM	<u>eiiooo</u>	RECIPIOMOTOR	<u>eoaii</u>	DECOMPOSIBILITY
<u>iaaeee</u>	BLIND AS A BEETLE	<u>iaaaaa</u>	PHYSICAL ANTHROPOLOGY	<u>ieeaaa</u>	INTERMETATARSAL
<u>ieeooo</u>	PIECE OF GOODS	<u>ioaaaa</u>	KINGDOM OF MANANA	<u>ioeeee</u>	IODOXYBENZENE
<u>ioouuu</u>	PHILOSOPHUNCUL-US	<u>iuueee</u>	IUVENTEE		
<u>oaeeee</u>	SOAP-PATENTEE	<u>oeaaaa</u>	FOR EVER AND A DAY	<u>oeaii</u>	COFFEE-IMBIBING
<u>oiiaaa</u>	ORIGINAL STANDARD	<u>oiieee</u>	OXIDIGERENCE	<u>ouueee</u>	TO BUNG UP THE EYES
<u>uaaeee</u>	UNAWAKENEDNESS	<u>ueeaaa</u>	PURPLE HEART AWARD	<u>ueaii</u>	SQUEEZIBILITY
<u>ueeooo</u>	MUSKEETO-BOOT	<u>uiieee</u>	QUILTING-NEEDLE	<u>uiiooo</u>	SUBSCRIPTION BOOK
<u>uoeeee</u>	CUCKOO-FEEDER	<u>uooiii</u>	UNCOGNOSCIBILITY		

111223 (31 of the 60 perms)

<u>aaeeoo</u>	AVALANCHE-THEORY	<u>aaaiie</u>	CATABALLITVE	<u>aaaiio</u>	LAMBDA TRANSITION
<u>aaaoee</u>	CANADA GOOSE	<u>aaaooi</u>	ARKANSAS TOOTHPICK	<u>aaaouu</u>	CATANADROMOUS
<u>eeaaai</u>	SENTENCE ANALYSIS	<u>eeaaao</u>	CRÈME DE CACAO	<u>eeaiia</u>	EXCREMENTITIAL
<u>eeeiio</u>	RE-BENEDICTION	<u>eeaiiu</u>	EPHEMERIDIBUS	<u>eeooii</u>	EPHEMEROMORPHIC
<u>eeeoou</u>	ELEEMOSYNOUS	<u>eeuuui</u>	NEEDLE-PUNCTURING		
<u>iiiaae</u>	VIRGINIAN PLATE	<u>iiiaao</u>	SICILIAN SAFFRON	<u>iiiaau</u>	INFINITARKALKUL
<u>iiieea</u>	PRIMITIVE STREAK	<u>iiieeo</u>	INVISIBLE EXPORTS	<u>iiieeu</u>	DIMINISHED RETURN
<u>iiiioe</u>	MILLIMICROMOLES	<u>iiiioou</u>	SILICICOLOUS		
<u>ooooae</u>	SCHOOL BROADCASTER	<u>ooooai</u>	HYDROXOCOBALAMIN	<u>oooeaa</u>	SOPHOMORE YEAR
<u>oooeei</u>	CORROBORREEING	<u>oooeeu</u>	BOOK OF SEDERUNT	<u>oooiia</u>	MONOPOLITICAL
<u>oooiie</u>	BOOBOISIE	<u>oooiuu</u>	ZOOGONIDIUM	<u>ooouue</u>	TO THROW BOUQUETS

No examples were found for perms beginning uuu-

PROGRESSIVE DOUBLING AND HALVING VOWEL PATTERNS

In the vowel patterns **1223333** and **1111223**, the vowel sequences progressively double (one, two, four) and halve (four, two, one) respectively. Examples are PROHIBITED DEGREES (oiieeee) and TELEMETEOROGRAPH (eeeeooa).

MIAMI VOWEL PATTERN

The vowel pattern **12312** reflects the letter pattern of the word MIAMI. 5-vowel examples were found for all 60 perms. Note that in the very last word, UOIUOD*, the 5 vowels occur as a group.

aeiae ABBREVIATE	aeoae AEROPLANE	aeuae ADEQUATE	aieai ALLITERATING
aioai ARITOCRATIC	aiuai ARTICULATING	aoeao MAGNOPERATOR	aoiao ABOMINATOR
aouao ANOVULATORY	aeau SAUCEPANFUL	auiau RAUISAUNT	auoau ADUOCATUS
eaiea DEADLIHEAD	eaiea MECHANOTHERAPY	eauea CENTAUREA	eiaei PERIPATETIC
eioei HELIOCENTRIC	eiuei DELIQUESCING	eoaeo HEXOCTAHEDRON	eoieo EMBROIDERY-WORK
eoueo RECONQUEROR	euaeu HERCULANEUM	euieu BEGUILEFUL	euoeu PLEUROCENTRUM
iaeia DISRAELIAN	iaoia CITATORIAL	iauia INTRAPLUVIAL	ieaie IDEALIZE
ieoie INVENTORIES	ieuie INDESTRUCTIBLE	ioaio DISLOCATION	ioeio MISCONCEPTION
iouio INTRODUCTION	iuaiu TRIBUTARIUS	iueiu VITUPERIUM	iuoio INFUSORIUM
oaeoa POLYADENOPATHY	oaioa FORMATIONAL	oauoa PHONAUTOGRAM	oeaoe FORESHADOWED
oeioe CONFECTIONER	oeuoe OVERTUTORED	oiaoi OBLIGATORILY	oieoi VOCIFEROSITY
oiuoi OPHIUROID	ouaou ROUNDABOUT	oueou BOUNTEOUS	ouiou FORTUITOUS
uaeua QUAESTUARY	uaiua UNPARTICULAR	uaoua QUADROBULARY	ueaue UNDERVALUE
ueiue UNCERTITUDE	ueoue UNDEVOURED	uiaui GUITAR-PLUNKING	uieui UNINTERRUPTING
uioui URICOSURIC	uoauo SUB-COAJUTOR	uoouo LUNGO-É-UNGO	uoioo UOIUOD*

As mentioned earlier, I did not search for patterns of length greater than 8 vowels. During my searches, however, I chanced upon these 9-vowel palindromic examples...

122131221

eaieueiae PLEASANTNESS-UNPLEASANTNESS

123121321

eaieaeiae NEGATIVE AFTER-IMAGE

123424321

oeaueuae TO BEAT UP THE QUARTERS OF

122343221

aeuiueea LAVENDER FURNITURE CREAM

123242321

eaiauaiae SPEAKING ACQUAINTANCE

...and even a 10-vowel example:

1232442321

oiaieeiaio SOCIAL DIFFERENTIATION

Finally, my eye was caught by the 22-letter MONARCHICO-ARISTOCRATIC with its triple tautonymic 9-vowel pattern 123123123 (oaioaioai).

Can readers find further 9(+)-vowel patterns in the OED?