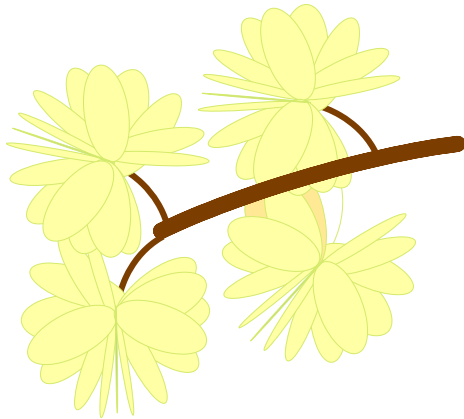


CHAPTER 5. FAMILIES of Words

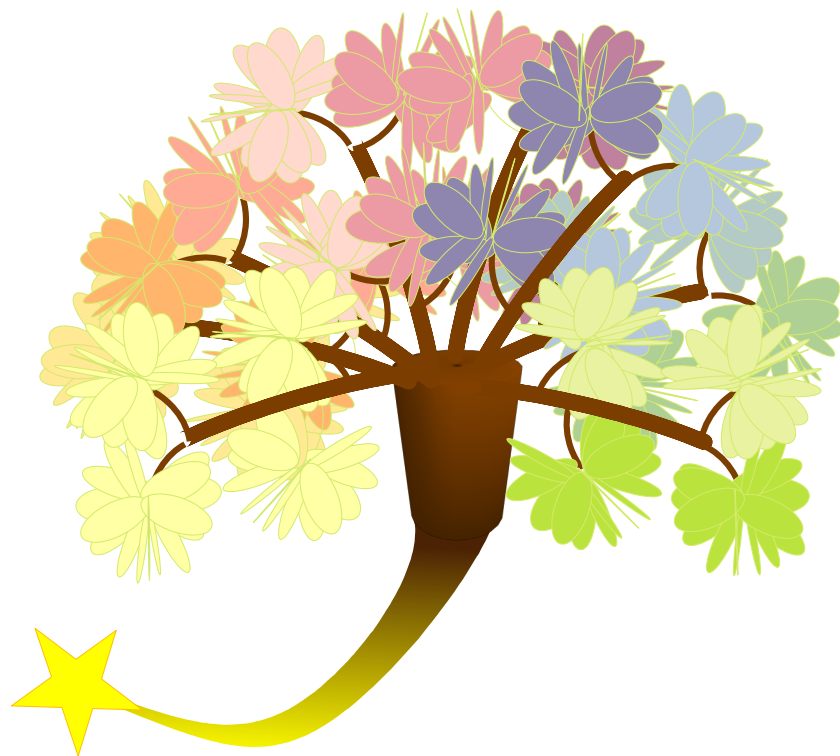
(2024-01-03)



In order to fulfill the General Principle of Nwehu Nuswei (NN) that “Related words have related sounds”, and that “Sixteen consonants and sixteen vowels” are used, the vocabulary space is divided into sixteen FAMILIES, each of which begins with a different consonant, each containing words related to similar subjects. (See “Closing Thoughts”.)

The 16 families are each subdivided into 16 GENI (or GENUSES), each with one of the 16 vowel sounds in its first syllable. Each GENUS is more specifically related to similar ideas, and is further subdivided according to the second consonant into 16 SPECIES. Each SPECIES has 16 closely-related words, each ending with a different one of the 16 vowels.

This chapter explains the division of vocabulary space into 16 FAMILIES and their GENI.



5.1. The Sixteen Families

<u>Initial Consonant</u>			§
Latin	NN	Category	Section
H	Ɔ	FUNCTIONALS: Pronouns, articles, suffixes, various others	§5.2
X	Ɔ	The Verb	§5.3
S	Ɔ	Relations: Prepositions, space and time	§5.4
F	Ɔ	Variables: to be used as “jargon” in technical fields	§5.5
R	Ɔ	Household objects, common tools, vehicles	§5.6
Y	Ɔ	Animals and Macro-Biology	§5.7
N	Ɔ	General phenomena: Feelings, Emotions, Movements, Habits	§5.8
M	Ɔ	People, Family & Social Relationships, daily life	§5.9
K	Ɔ	Arts and Sciences 1	§5.10
C	Ɔ	Plants and Micro-Biology	§5.11
T	Ɔ	Quantities and Qualities	§5.12
P	Ɔ	Individual and Social Behavior	§5.13
G	Ɔ	Arts and Sciences 2	§5.14
J	Ɔ	Life Sciences	§5.15
D	Ɔ	Inorganic natural phenomena	§5.16
B	Ɔ	Medical Sciences	§5.17

The GENI of each family are listed as follows, with a brief status report on each family.

5.2. ǀ H – Functionals: Pronouns, articles, suffixes, various others

Initial Syllable	IPA	NN	Word Genus
Hu--	hə	ǀᵛ	Functionals and Markers Definite, Foreground, unspecified distance
Hi--	hi	ǀᵛ	('every, all')
He--	he	ǀᵛ	Definite, Non-Foreground, close,
Hei--	hej	ǀᵛ	Definite, Foreground, close,
Ha--	ha	ǀᵛ	Definite, Non-Foreground, mid-distance,
Hai--	haj	ǀᵛ	Definite, Foreground, mid-distance,
Ho--	hə	ǀᵛ	Definite, Non-Foreground, far,
Hoi--	həj	ǀᵛ	Definite, Foreground, far,
Hw--	hu	ǀᵛ	Indefinite, Foreground, unspecified distance ('any')
Hwi--	hwi	ǀᵛ	Indefinite, Non-Foreground, unspecified distance
Hwe--	hwe	ǀᵛ	Indefinite, Non-Foreground, close
Hwei--	hwɛj	ǀᵛ	Indefinite, Foreground, close
Hwa--	hwa	ǀᵛ	Indefinite, Non-Foreground, mid-distance
Hwai--	hwaj	ǀᵛ	Indefinite, Foreground, mid-distance
Hwo--	hwə	ǀᵛ	Indefinite, Non-Foreground, far
Hwoi--	hwəj	ǀᵛ	Indefinite, Foreground, far

Population (percent of words assigned meanings)	99%
Discussion:	Chapter 7: “Deictics”, Chapter 8: “Functional Words”.
Functionals (initial 00) include:	Exclamations, manner and aspect, relationals, adverbs of manner and comparison, general descriptors, certain time descriptors, and social indicators. They are placed after other words with which they are closely associated; some may stand

	alone.
Non-Functionals (initial O1-OF):	Their general purpose is to help the listener understand whether the associated word refers to something known, its importance in the sentence relative to other words, and possibly its distance from the speaker or foregrounded item. Their use is not required; they are available for clarification; the distance aspects of these words may add meaning or clarification.
Foreground:	attention is focused on the associated word
Non-Foreground:	another word in the sentence or phrase receives primary attention
Definite:	the associated word refers to a concept that has been introduced previously in the narrative, or is presumed to be known to both speaker and listener(s).
Indefinite:	the associated word is being introduced in a narrative for the first time, or is being referred to as a general class or concept. The indefinite form can also be used if a speaker does not wish to distinguish between definite and non-definite in the discourse.
Distance:	These references may be used at the speaker's discretion. Three degrees of distance are provided for:
Near:	'here' is relative to the speaker or the foreground item under discussion, unless indicated otherwise.
Mid:	'there' is beyond the speaker's or foreground item's immediate sight or reach, but could be viewed or grasped in a short time. Mid-distance may also be used to refer to something within a short distance of the non-foreground object of discourse. If speaker and hearer are not within sight of one another, mid-distance refers to what is in the hearer's view or reach.
Far:	'yonder' is a significant distance from both speaker and hearer, or from both foreground and non-foreground items. It may be within sight, but would take a long time to reach.

5.3. L X – The Verb

Initial Syllable	IPA	NN	Word Genus
xu--	ʃə	Lɿ	Simple
xi--	ʃi	LL	Subjunctive - -
xe--	ʃe	Lɿ	- Doubtful Truth -
xei--	ʃej	Lɿ	Subjunctive Doubtful Truth -
xa--	ʃa	Lɿ	- Possible Truth -
xai--	ʃaj	LD	Subjunctive Possible Truth -
xo--	ʃɔ	Lɿ	- Certain Truth -
xoi--	ʃɔj	Lɿ	Subjunctive Certain Truth -
xw--	ʃu	Lɿ	- - Conditional
xwi--	ʃwi	Lɿ	Subjunctive - Conditional
xwe--	ʃwe	Lɿ	- Doubtful Truth Conditional
xwei--	ʃwej	Lɿ	Subjunctive Doubtful Truth Conditional
xwa--	ʃwa	Lɿ	- Possible Truth Conditional
xwai--	ʃwaj	Lɿ	Subjunctive Possible Truth Conditional
xwo--	ʃwɔ	Lɿ	- Certain Truth Conditional
xwoi--	ʃwɔj	Lɿ	Subjunctive Certain Truth Conditional

Population: 100%

Discussion: Chapter 6: “The Verb: Connecting Concepts”

5.4. AS – Relations: Prepositions, space and time

Initial Syllable	IPA	NN	Word Genus
su--	sə	⌈⌊	Conceptual Relations
si--	si	⌈⌋	Spaces
se--	se	⌈⌋	Space-Time Frame 1 (close): General
sei--	sej	⌈⌋	Space-Time Frame 1 (close): Complete
sa--	sa	⌈⌋	Space-Time Frame 2 (mid): General
sai--	saj	⌈⌋	Space-Time Frame 2 (mid): Complete
so--	sɔ	⌈⌋	Space-Time Frame 3 (far/large): General
soi--	sɔj	⌈⌋	Space-Time Frame 3 (far/large): Complete
sw--	su	⌈⌋	Special and Technical Space-Time Words
swi--	swi	⌈⌋	(undefined)
swe--	swe	⌈⌋	Space-Time Frame 1 (close): Incomplete
swei--	swɛj	⌈⌋	Space-Time Frame 1 (close): Continual
swa--	swa	⌈⌋	Space-Time Frame 2 (mid): Incomplete
swai--	swaj	⌈⌋	Space-Time Frame 2 (mid): Continual
swo--	swɔ	⌈⌋	Space-Time Frame 3 (far/large): Incomplete
swoi--	swɔj	⌈⌋	Space-Time Frame 3 (far/large): Continual

Population: 78%

Discussion: Chapter 14: “Representing Space and Time”

5.5. 𐌲 F – Variables: to be used as “jargon” in technical fields

Initial Syllable	IPA	NN	Word Genus
fu--	fə	𐌲𐌴	Reserved for special fields (Note below)
fi--	fi	𐌲𐌶	Reserved for special fields
fe--	fɛ	𐌲𐌸	Reserved for special fields
fei--	fɛj	𐌲𐌺	Reserved for special fields
fa--	fa	𐌲𐌰	Reserved for special fields
fai--	faj	𐌲𐌴	Reserved for special fields
fo--	fɔ	𐌲𐌶	Reserved for special fields
foi--	fɔj	𐌲𐌺	Reserved for special fields
fw--	fu	𐌲𐌸	Reserved for special fields
fwi--	fwi	𐌲𐌺	Reserved for special fields
fwe--	fwe	𐌲𐌸	Reserved for special fields
fwei--	fwej	𐌲𐌺	Reserved for special fields
fwa--	fwa	𐌲𐌰	Reserved for special fields
fwai--	fwaj	𐌲𐌴	Reserved for special fields
fwo--	fwo	𐌲𐌶	Reserved for special fields
fwoi--	fwoj	𐌲𐌺	Reserved for special fields

Population:	Open, can be reused many times
Note:	Any word beginning with F has no meaning in Nwehu Nuswei itself, but is available for use in fields of science, engineering, craft, discipline, or trade. To specify how the word should be interpreted, one of two methods can be used:
	1. For lengthy discourse in one field of discipline, the name of the discipline is specified toward the beginning of the discourse, and it is understood that f-words bear meanings defined in that discipline.
	2. For occasional use, or in discourse involving multiple disciplines, the name of the discipline is given immediately before the f- word.
	Each discipline that requires words not defined in Nwehu Nuswei thus

	requires an official body that creates the principles for f- word formation. It must maintain and publish a dictionary of the entire corpus of 4,096 f- words. If more than 4,096 words are required, additional sets can be defined by using either the name of a sub-discipline, or a related word, or a number as the word that specifies the corpus.
	Organizations that define a corpus of f- words would need to apply to do so through consensus, in order to prevent competing “authorities” from defining the same discipline's corpus of words differently and creating confusion.
Progress:	Proof-of-concept work has been done on minerals, GENUS Dw--.
Discussion:	Chapter 18: “F--- Expansion Words”

5.6. 𐌲 R Household objects, common tools, vehicles

Initial Syllable	IPA	NN	Word Genus
ru--	ɹə	𐌲𐌵	Miscellaneous Personal Objects
ri--	ɹi	𐌲𐌺	Materials by Purpose
re--	ɹe	𐌲𐌻	Materials by Composition
rei--	ɹej	𐌲𐌼	Small tools
ra--	ɹa	𐌲𐌾	Tools by Purpose
rai--	ɹaj	𐌲𐌿	Medium and Large Tools
ro--	ɹɔ	𐌲𐌿	House parts, rooms
roi--	ɹɔj	𐌲𐌿	Furniture
rw--	ɹu	𐌲𐌺	Electronics
rwi--	ɹwi	𐌲𐌺	Machines in General
rwe--	ɹwe	𐌲𐌺	Domestic Animals by Purpose
rwei--	ɹwej	𐌲𐌺	Small Machines
rwa--	ɹwa	𐌲𐌺	Machines – Medium and Large
rwai--	ɹwaj	𐌲𐌺	Weapons and Defense
rwo--	ɹwɔ	𐌲𐌺	Land Vehicles
rwoi--	ɹwɔj	𐌲𐌺	Air, Water, and Space Vehicles

Population:	37%
Progress:	Largely ignored so far.
Discussion:	-

5.7. Ƴ Y Animals and Macro-Biology

Initial Syllable	IPA	NN	Word Genus
yu--	ʒə	Ƴɔ	Animal Classification
yi--	ʒi	Ƴɪ	Common domestic and semi-domestic creatures
ye--	ʒe	Ƴɛ	Herbivores
yei--	ʒɛj	Ƴɛj	Fish
ya--	ʒa	Ƴɑ	Birds
yai--	ʒaj	Ƴɑj	Invertebrates
yo--	ʒɔ	Ƴɔ	Carnivores
yoi--	ʒɔj	Ƴɔj	Pests
yw--	ʒu	Ƴu	Zoology
ywi--	ʒwi	Ƴwi	Animal husbandry and Veterinary Medicine
ywe--	ʒwe	Ƴwe	Paleobiology
ywei--	ʒwej	Ƴwej	Paleo Life Forms
ywa--	ʒwa	Ƴwa	Animal Growth and Development
ywai--	ʒwaj	Ƴwaj	Historical Development of Life Forms
ywo--	ʒwɔ	Ƴwɔ	Ecology
ywoi--	ʒwɔj	Ƴwɔj	Sustainable Living

Discussion:	Chapter 7: “Deictics”, Chapter 8: “Funtional Words”
Progress:	18%

5.8. 𐄂 N – General Phenomena: Feelings, Emotions, Movements, Habits

Initial Syllable	IPA	NN	Word Genus
nu--	nə	𐄂𐄃	General Phenomena
ni--	ni	𐄂𐄄	Vision
ne--	ne	𐄂𐄅	Sound
nei--	nej	𐄂𐄆	Tactile sensation, Taste and Smell
na--	na	𐄂𐄇	Emotions and Personalities
nai--	naj	𐄂𐄈	Bodily actions
no--	nɔ	𐄂𐄉	Movement
noi--	nɔj	𐄂𐄊	Goal-directed action (social & mechanical)
nw--	nu	𐄂𐄋	General Personalities & Perception
nwi--	nwi	𐄂𐄌	Non-moving action
nwe--	nwe	𐄂𐄍	Communication
nwei--	nwej	𐄂𐄎	Non-relational space-time concepts
nwa--	nwa	𐄂𐄏	God and theology: spirit, mind & will
nwai--	nwaj	𐄂𐄐	Epistemology, Philosophy, Metaphysics
nwo--	nwɔ	𐄂𐄑	General kinds of violent actions
nwoi--	nwɔj	𐄂𐄒	Gestures and Postures

Population:	55%
Progress:	Focus has been on General Phenomena, Visual perception, Emotions and Personalities, Communication
Discussion:	Chapter 10: “Love and Hate”; Chapter 16: “Language, Cognition, and Logic”; “Sensory Perception”; potentially more

5.9. 𐄂 M – People, Family, Social Relationships, Daily Life

Initial Syllable	IPA	NN	Word Genus
mu--	mə	𐌆𐌰	Family
mi--	mi	𐌆𐌺	Social
me--	me	𐌆𐌳	Food
mei--	mɛj	𐌆𐌴	Cooking
ma--	ma	𐌆𐌱	House and dwelling
mai--	maj	𐌆𐌲	Home furnishing and common objects
mo--	mə	𐌆𐌳	Life, growth, decay, and death
moi--	mɔj	𐌆𐌴	Caregiving and Education
mw--	mu	𐌆𐌶	Clothing
mwi--	mwi	𐌆𐌷	Occupations
mwe--	mwe	𐌆𐌸	Adornment
mwei--	mwej	𐌆𐌹	Cleaning
mwa--	mwa	𐌆𐌺	Daily Activities
mwai--	mwaj	𐌆𐌻	Medical conditions – common, folk, home
mwo--	mwə	𐌆𐌼	Agriculture
mwoi--	mwɔj	𐌆𐌽	

Population:	11%
Progress:	Only Family and a few other SPECIES been assigned
Discussion:	-

5.10. Y K – Arts and Sciences 1

Initial Syllable	IPA	NN	Word Genus
ku--	kə	𐄂𐄃	Science Methods and Approaches
ki--	ki	𐄂𐄄	Energy
ke--	ke	𐄂𐄅	Visible and Near-Visible Light
kei--	kej	𐄂𐄆	Radiation
ka--	ka	𐄂𐄇	Types of Matter
kai--	kaj	𐄂𐄈	Industrial and Building Materials
ko--	kɔ	𐄂𐄉	Elements and Common Compunds
koi--	kɔj	𐄂𐄊	Organic and Polymer Chemistry
kw--	ku	𐄂𐄋	Formal Theory
kwi--	kwi	𐄂𐄌	Applied Formal Theory
kwe--	kwe	𐄂𐄍	Mathematics
kwei--	kwej	𐄂𐄎	Applied Mathematics
kwa--	kwa	𐄂𐄏	Physics
kwai--	kwaj	𐄂𐄐	Applied Physics
kwo--	kwɔ	𐄂𐄑	Chemistry
kwoi--	kwɔj	𐄂𐄒	Applied Chemistry

Population:	25%
Progress:	Only subatomic particles and the Periodic Table have been populated
Discussion:	Chapter 15: “Physical Matter”

5.11. C C – Plants and Microbiology

Initial Syllable	IPA	NN	Word Genus
cu--	tʃə	ሂ፲	Plant Classification
ci--	tʃi	ሂሌ	Common Domestic and Semi-Domestic Plants
ce--	tʃe	ሂሐ	Bacteria and viruses
cei--	tʃej	ሂሐ	Fungi
ca--	tʃa	ሂፐ	Mid-size Plants
cai--	tʃaj	ሂሐ	Small Plants
co--	tʃo	ሂሐ	Trees
coi--	tʃoj	ሂሐ	Disease-Causing Microorganisms
cw--	tʃu	ሂህ	Botany
cwi--	tʃwi	ሂህ	Horticulture and Plant Health
cwe--	tʃwe	ሂዳ	Cellular Biology 1
cwei--	tʃwej	ሂዳ	Cellular Biology 2
cwa--	tʃwa	ሂኖ	Plant Physiology 1
cwai--	tʃwaj	ሂኖ	Plant Physiology 2
cwo--	tʃwə	ሂደ	Plant Anatomy 1
cwoi--	tʃwəj	ሂደ	Plant Anatomy 2

Population:	2%
Progress:	Only 4 SPECIES have been named
Discussion:	Chapter 17: “Life Sciences”

5.12. 𐄂T – Quantities and Qualities

Initial Syllable	IPA	NN	Word Genus
tu--	tə	𐄂𐄀	General Number and Measurement Concepts
ti--	ti	𐄂𐄁	Basic Hexadecimal Integers 0 through 255
te--	te	𐄂𐄂	Qualitative concepts
tei--	tej	𐄂𐄃	Multipliers and Dividers
ta--	ta	𐄂𐄄	Basic Decimal Integers 0 through 99
tai--	taj	𐄂𐄅	Time Concepts
to--	tə	𐄂𐄆	Time: Larger Units
toi--	təj	𐄂𐄇	Time: Smaller Units
tw--	tu	𐄂𐄈	Standard Measures of Time
twi--	twi	𐄂𐄉	Negative Hexadecimal Integers -1 through -255
twe--	twe	𐄂𐄊	Non-Integer Number Bases
twei--	twɛj	𐄂𐄋	Geometry
twa--	twa	𐄂𐄌	Negative Decimal Integers -1 through -100
twai--	twaj	𐄂𐄍	Special Mathematical Numbers
two--	twə	𐄂𐄎	General Measurements
twoi--	twəj	𐄂𐄏	Measure of Energy, Waveforms

Population:	100%
Progress:	Completed
Discussion:	Chapter 12: “Numbers in Nwehu Nuswei”

5.13. P – Individual and Social Behavior

Initial Syllable	IPA	NN	Word Genus
pu--	pə	Ⲕⲓ	Anthropology and Sociology
pi--	pi	Ⲕⲓ	
pe--	pe	Ⲕⲓ	Culture
pei--	pej	Ⲕⲓ	Law
pa--	pa	Ⲕⲓ	Social Interaction and Linguistics
pai--	paj	Ⲕⲓ	Information Science and Communication Media
po--	pə	Ⲕⲓ	Economics
poi--	pəj	Ⲕⲓ	Management and Political Science
pw--	pu	Ⲕⲓ	Psychology
pwi--	pwi	Ⲕⲓ	Social Psychology
pwe--	pwe	Ⲕⲓ	History
pwei--	pwej	Ⲕⲓ	Archeology
pwa--	pwa	Ⲕⲓ	Development, Gender, Education
pwai--	pwaj	Ⲕⲓ	Library Science and Journalism
pwo--	pwo	Ⲕⲓ	Occupations 1
pwoi--	pwoj	Ⲕⲓ	Occupations 2

Population:	6%
Progress:	Only 7 Linguistics-related geni are populated. See “Communication in NN” for discussion

5.14. 𐄂 G – Arts and Sciences 2

Initial Syllable	IPA	NN	Word Genus
gu--	gə	𐄂𐄃	Physical Interactions
gi--	gi	𐄂𐄄	
ge--	ge	𐄂𐄅	Engineering Principles 1
gei--	gej	𐄂𐄆	Engineering Practice 1
ga--	ga	𐄂𐄇	Engineering Principles 2
gai--	gaj	𐄂𐄈	Engineering Practice 2
go--	gɔ	𐄂𐄉	Astronomy and Cosmology
goi--	gɔj	𐄂𐄊	Geography and Geology
gw--	gu	𐄂𐄋	Artistry
gwi--	gwi	𐄂𐄌	Literary Arts
gwe--	gwe	𐄂𐄍	Visual Arts
gwei--	gwej	𐄂𐄎	Decorative Arts
gwa--	gwa	𐄂𐄏	Auditory Arts and Instruments
gwai--	gwaj	𐄂𐄐	Music
gwo--	gwo	𐄂𐄑	Performing Arts
gwoi--	gwoj	𐄂𐄒	

Population:	0%
Progress:	No progress
Discussion:	-

5.15. J – Life Sciences

Initial Syllable	IPA	NN	Word Genus
ju--	dʒə	ጅጅ	Technical Terms 1
ji--	dʒi	ጅጊ	Technical Terms 2
je--	dʒe	ጅገ	Common Animal Anatomy 1
jei--	dʒɛj	ጅገገ	Common Animal Anatomy 2
ja--	dʒa	ጅጎ	Common Animal Physiology 1
jai--	dʒaj	ጅጎጎ	Common Animal Physiology 2
jo--	dʒɔ	ጅጐ	Lesser-known Animal Anatomy
joi--	dʒɔj	ጅጐጐ	Lesser-known Animal Physiology
jw--	dʒu	ጅ጑	Genetics 1
jwi--	dʒwi	ጅ጑጑	Genetics 2
jwe--	dʒwe	ጅ጑ጒ	
jwei--	dʒweɪj	ጅ጑ጒጒ	
jwa--	dʒwa	ጅ጑ጓ	Organic Chemistry 1
jwai--	dʒwaj	ጅ጑ጓጓ	Organic Chemistry 2
jwo--	dʒwɔ	ጅ጑ጔ	Neurology
jwoi--	dʒwɔj	ጅ጑ጔጔ	Brain Structure and Function

Population:	24%
Progress:	Primarily in anatomical orientation terms
Discussion:	Chapter 17: “Life Sciences”

5.16. 𐄂 D – Inorganic Natural Phenomena

Initial Syllable	IPA	NN	Word Genus
du--	də	𐄂𐄃	Inorganic General
di--	di	𐄂𐄄	Commonly Used Substances
de--	de	𐄂𐄅	Metalurgy
dei--	dej	𐄂𐄆	Metal Alloys
da--	da	𐄂𐄇	Ceramics and Glass
dai--	daj	𐄂𐄈	Semiconductors
do--	də	𐄂𐄉	
doi--	dəj	𐄂𐄊	
dw--	du	𐄂𐄋	Mineralogy
dwi--	dwi	𐄂𐄌	
dwe--	dwe	𐄂𐄍	Composite Materials
dwei--	dwej	𐄂𐄎	
dwa--	dwa	𐄂𐄏	
dwai--	dwaj	𐄂𐄐	
dwo--	dwo	𐄂𐄑	
dwoi--	dwoj	𐄂𐄒	

Population:	6%
Progress:	“Mineralogy” populated as proof-of-concept
Discussion:	Chapter 18: “F--- Expansion Words”

5.17. Σ B – Medical Sciences

Initial Syllable	IPA	NN	Word Genus
bu--	bə	ᲗᲠ	
bi--	bi	ᲗᲒ	
be--	be	ᲗᲢ	
bei--	bɛj	ᲗᲣ	
ba--	ba	ᲗᲤ	
bai--	baj	ᲗᲦ	
bo--	bɔ	ᲗᲧ	
boi--	bɔj	ᲗᲨ	
bw--	bu	ᲗᲩ	
bwi--	bwi	ᲗᲪ	
bwe--	bwe	ᲗᲫ	
bwei--	bwej	ᲗᲬ	
bwa--	bwa	ᲗᲭ	
bwai--	bwaj	ᲗᲮ	
bwo--	bwɔ	ᲗᲯ	
bwoi--	bwɔj	ᲗᲰ	

Population:	0%
Progress:	this family was re-assigned to “Medical Sciences” in 2017 and no attempt has been made to populate it.