

FORMULAE FOR COINING SPECIALIZED LUGANDA TERMS

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ABBREVIATIONS AND SYMBOLS

B	preprefix
C	combining form such that in Luganda $C = S/ [R \bullet L]$
C ⁺	initial consonant of combining form C geminated
F	prefix
F ₊	prefix in plural
F _a	adjectival prefix
F _{nom}	nominal prefix
F _{pro}	pronominal prefix
F _s	subject case prefix
H	suffix
<i>I</i>	<i>e or i</i>
L	postsuffix; $L = \bullet a/ (y)e/ wa// e/ u// i// o$
oku•	prefix of verb in citation form
R	verb root, simple or extended
R ⁺	initial consonant of verb root R geminated
S	nominal stem
S ⁺	initial consonant of nominal stem S geminated
S _{num}	numeral stem
SI	International System of Units

<i>u</i>	o or u
•waZa	positive suffix in Luganda such that •waZa # •wuZa and •waZa = •waca/ •wala/ •wama/ •wana/ •wanwa/ •wapa/ •waga/ •watwa/ •wava/ •wawa
•wuZa	negative suffix in Luganda such that •wuZa # •waZa and •wuZa = •wuca/ •wuka/ •wuma/ •wuna/ •wunwa/ •wupa/ •wuga/ •wutwa/ •wuva/ •wuwa
X	constituent of a word in English/ German
Z	word in Luganda such that Z = [F•S]/ [R•L]
•	agglutinational boundary (in Luganda); syllable boundary (in English)
=	in-language synonym
#	contrasted with
≡	posited cross-language equivalent
/	alternative
~	variant form
→	if ... then
<	from
┆	leading to
□	special note
()	occasionality/ optionality brackets
[]	block brackets

INTRODUCTORY NOTES ON THE THIRD EDITION

1. The first and second editions of this paper appeared in October and November 2022 respectively. For the present edition we have not only precised some of term-coining formulae but also added a third part in which an extended list of specialized Luganda affixes are defined in Luganda. We contend that Luganda definitions of Luganda affixes will further concept building and articulation in Luganda.

2. In this edition we generalize English/ German – Luganda formulae as follows.

2.1 Complex formulae

$[[F/C] \bullet X] / [X \bullet [H/C]] \equiv \text{oku} \bullet S / R \bullet (a)H \bullet a \quad \vdash F \bullet S / R \bullet (a)H \bullet L$ (if $\text{oku} \bullet S / R \bullet (a)H \bullet a$ is dynamic)

$\vdash F \bullet S \bullet H \bullet a$ (if $\text{oku} \bullet S \bullet H \bullet a$ is static)

2.2 Compound formulae

$[[F/C] \bullet X] / [X \bullet [H/C]] \equiv [F_1 \bullet C_1 \quad F_{1s} \bullet \text{ekuusa ku } F_2 \bullet C_2] \quad \vdash F_1 \bullet C_1 \bullet C_2^+$

$[[F/C] \bullet X] / [X \bullet [H/C]] \equiv [F_1 \bullet C_1 \quad F_{1s} \bullet R \bullet a/wa/e \quad F_2 \bullet C_2] \quad \vdash F_1 \bullet R \bullet a/wa/e \bullet Z$
 $\vdash R^+ \bullet a/wa/e \bullet Z$

3. Now that we have this powerful Luganda term coiner, we are justified to urge all Luganda well-wishers to fund the project that will lead to the full terminological maturity of the language.

15. **an•X ~ a•X** \equiv **oku•S•wuna** \rightarrow **oku•R•*U*na**
16. **X•an = X•al** q.v.
17. **ana•X** \equiv **oku•S•gula** \rightarrow **oku•R•agula**
 \downarrow \downarrow
F•S•gula **F•R•agul•L**
18. **X•ana ~ X•iana** \equiv (1) **oku•S•maala**
 (2) **F•S•maala**
19. **aniso•X** \equiv **oku•S•nkuna** \rightarrow **F•S•nkun•a**
20. **ante•X** \equiv **oku•S•maasa** \rightarrow **oku•R•amaasa**
 \downarrow \downarrow
F•S•maasa **F•R•amaas•L**
21. **anti•X** \equiv (1) **oku•S•konta** \rightarrow **oku•R•*U*ta**
 \downarrow \downarrow
F•S•konta **F•R•*U*t•L**
 (2) **F•S•f•L**
22. **apo•X** \equiv **oku•S•wala** \rightarrow **F•S•wala**
oku•S•suula \rightarrow **F•S•suul•L**
23. **après•X = after•X** q.v.
24. **X•ar = X•al** q.v.
25. **arch•X** \equiv **sse•B•F₊•S**
26. **X•arium ~ X•ary** \equiv **oku•S•wila** \rightarrow **oku•R•*I*la**
 \downarrow \downarrow
F•S•wilo **F•R•*I*lo**
27. **artificial X** \equiv **F•S•nnana**
28. **X•ary = X•arium, X•al** q.v.
29. **X•iasis ~ X•osis** \equiv **F•lwala•Z**

30. **X•aster** \equiv **oku•S•geenya** \rightarrow **oku•R•ageenya**
 \downarrow
F•R•ageenyi
31. **X•ate** \equiv (1) **obu•S, obwa•Z**
 (2) = **X•al** q.v.
 (3) = **X•ad** q.v.
 (4) **oku•S•waza**
32. **X•ati** = **X•ad** q.v.
33. **atto•X** \equiv **atto•S/ aka•S•ona** (SI 10⁻¹⁸)
34. **auto•X** \equiv **oku•S•yina** \rightarrow **oku•R•ayina**
 \downarrow \downarrow
F•S•yina **F•R•ayin•L**
35. **auto•X**² \equiv **F₁•S₁•ggaali**
36. **back•X** \equiv **oku•S•ka** \rightarrow **oku•R•aka**
 \downarrow \downarrow
F•S•ka **F•R•ak•L**
37. **bene•X** \equiv **oku•S•lunga** \rightarrow **oku•R•alunga**
 \downarrow \downarrow
F•S•lunga **F•R•alung•L**
38. **bi(n)•X** \equiv (1) **F•S•bbilibaze**
 (2) **F_{nom}•R•a/ e•F_{num}•bilye**
 (3) **F_{nom}•nna•F₊•S•F_{num}•bilye**
 (4) **F•F₊•S•F_{num}•bili**
39. **by(e)•X** \equiv **oku•S•waaya** \rightarrow **oku•R•awaaya**
 \downarrow \downarrow
F•S•waaya **F•R•awaay•L**
40. **caco•X** \equiv **oku•S•bijja** \rightarrow **oku•R•abijja**
 \downarrow \downarrow
F•S•bijja **F•R•abijj•L**

55. **contra•X ~ counter•X** ≡ (1) = **anti•X** q.v.
 (2) $\text{oku}\cdot\text{S}\cdot\text{kasa} \rightarrow \text{oku}\cdot\text{R}\cdot\text{akasa}$
 $\begin{array}{ccc} \downarrow & & \downarrow \\ \text{F}\cdot\text{S}\cdot\text{kas}\cdot\text{L} & & \text{F}\cdot\text{R}\cdot\text{akas}\cdot\text{L} \end{array}$
56. **X counterpart** ≡ **F•S•kas•L**
57. **cross•X** ≡ $\text{oku}\cdot\text{S}\cdot\text{saaba} \rightarrow \text{oku}\cdot\text{R}\cdot\text{asaaba}$
 $\begin{array}{ccc} \downarrow & & \downarrow \\ \text{F}\cdot\text{S}\cdot\text{saab}\cdot\text{L} & & \text{F}\cdot\text{R}\cdot\text{asaab}\cdot\text{L} \end{array}$
58. **crypto•X** ≡ $\text{oku}\cdot\text{S}\cdot\text{kisa} \rightarrow \text{oku}\cdot\text{R}\cdot\text{akisa}$
 $\begin{array}{ccc} \downarrow & & \downarrow \\ \text{F}\cdot\text{S}\cdot\text{kis}\cdot\text{L} & & \text{F}\cdot\text{R}\cdot\text{akis}\cdot\text{L} \end{array}$
 $[\text{F}_1\cdot\text{S} \quad \text{F}_{1a}\cdot\text{kise}] = \text{F}\cdot\text{S}\cdot\text{kkise}$
59. **X•cule ~ X•culus ~ X•cle** ≡ **aka•S**
60. **cyber•X** ≡ **F•S•kkasi**
61. **de•X** ≡ $\text{oku}\cdot\text{S}\cdot\text{wuka}, \text{oku}\cdot\text{S}\cdot\text{wula}$
62. **deca•X** ≡ **deka•S/ walu•S•ena** (SI 10¹)
63. **deci•X** ≡ **desi•S/ wapi•S** (SI 10⁻¹)
64. **demi•X** ≡ **F•S•jjabili**
65. **deputy X** ≡ **F•S•ssigile**
66. **dextro•X** ≡ $[\text{F}\cdot\text{S} \text{ ku ddyo}] \rightarrow \text{F}\cdot\text{S}\cdot\text{ddyo}$
67. **di•X = bi(n)•X** q.v.
68. **dia•X** ≡ (1) $\text{oku}\cdot\text{S}\cdot\text{yima} \rightarrow \text{oku}\cdot\text{R}\cdot\text{ayima}$
 $\begin{array}{ccc} \downarrow & & \downarrow \\ \text{F}\cdot\text{S}\cdot\text{yim}\cdot\text{a} & & \text{F}\cdot\text{R}\cdot\text{ayim}\cdot\text{L} \end{array}$
 (2) = **cross•X** q.v.
69. **diplo•X** ≡ **F•S•bbilibaze**

70. **dis•X** ≡ (1) = **de•X** q.v.
 (2) **F•ta•R•a(•Z)**
71. **discrete X** ≡ **F•S•ssonja**
 □ **F•S•ssonja # F•S•ssanja**
72. **X•dom** ≡ (1) **obu•S**
 (2) **F•S•ma**
73. **double X** ≡ **F•S•bbilibaze**
74. **down•X** ≡ **oku•S•gala → oku•R•agala**

$$\begin{array}{ccc} \downarrow & & \downarrow \\ \mathbf{F\bullet S\bullet gal\bullet a} & & \mathbf{F\bullet R\bullet agal\bullet L} \end{array}$$
75. **duo•X** ≡ (1) **F_{nom}•nna•F₊•S•F_{num}•bilye**
 (2) **F•F₊•S•F_{num}•bili**
76. **duplo•X = diplo•X** q.v.
77. **X duration/ time/ period** ≡ **ekiseela•C⁺**
78. **dys•X** ≡ **F•S•zzibu**
79. **e- X (< electronic X)** ≡ **Z-m (<F_a•mymoonana)**
80. **ecto•X** ≡ **F•S•bwa**
81. **X•ectomy** ≡ **F•saama•Z**
82. **X•ed¹** ≡ **F•nna•Z**
83. **X•ed²** ≡ **F•R•wa/ e/ u**
84. **eigen•X = auto•X** q.v.
85. **X•eme** ≡ **F•S•lalama**
86. **empty- X** ≡ **F•leela•Z**
87. **en•X ~ endo•X ~ ento•X** ≡ **F•S•mwa**

88. **enantio•X = anti•X** q.v.

89. **X•en** ≡ **F•R•wa/ e/ u**

90. **epi•X** ≡ **F•S•kunga** (<oku•S•kunga)

91. **equi•X** ≡ oku•S•nkana → oku•R•ankana
 \downarrow \downarrow
F•S•nkan•a **F•R•ankan•L**

92. **X•er = X•al** q.v.

93. **X•ery = X•al** q.v

94. **X•esce** ≡ oku•S•wala/ wawa → F•S•wal•L / waw•L

95. **X•ese** ≡ (1) **F•nna•Z**

(2) **olu•nna•Z**

96. **X•esque** ≡ oku•S•gela → F•S•gel•a

97. **X•etum** ≡ **F•S•wilo**

98. **eu•X** ≡ oku•S•wooma → oku•R•awooma
 \downarrow \downarrow
F•S•wooma **F•R•awoom•L**

110. X•ferous ~ X•gerous	≡	(1) oku•S•na
		(2) F•baama/ baaka•Z
111. X•fold	≡	oku•S _{num} •baza → F•S _{num} •baze
112. fore•X	≡	oku•S•maasa → oku•R•amaasa <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="text-align: center;">↓ F•S•maasa</div> <div style="text-align: center;">↓ F•R•amaas•L</div> </div>
113. X•form	≡	F•kula•S ⁺
114. X•free	≡	F•buuma/ buuka•Z
115. X frequency	≡	omu•R•atelo
116. front X	≡	oku•S•bela → F•S•bela
117. X•ful	≡	(1) oku•S•na
		(2) F•jjudde•Z
118. further X	≡	oku•S•kila → oku•R•akila <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="text-align: center;">↓ F•S•kila</div> <div style="text-align: center;">↓ F•R•akil•L</div> </div>
119. X•gen	≡	F•zaala/ zaalwa•Z
120. general X	≡	ttaba•Z
121. X•genesis	≡	oku•S•waya → F•S•way•L
122. X•gerous = X•ferous q.v.		
123. giga•X	≡	giga •S/ sselu•S•ena (SI 10 ⁹ ; Computing 2 ³⁰)
124. gradual X	≡	oku•S•wola → oku•R•awola <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="text-align: center;">↓ F•S•wol•L</div> <div style="text-align: center;">↓ F•R•awol•L</div> </div>
125. X•gram	≡	F•kobwa•Z
126. X•graph	≡	F•koba•Z

127. **X•graphy** ≡ (1) **enkoba•Z**
 (2) **kakoba•Z**
128. **half-X = demi•X** q.v. ≡ **F•S•jjabili**
129. **half X•ed** ≡ **F•R•e•jjabili**
130. **haplo•X** ≡ **F•S•nniina**
131. **head of X** ≡ **omu•kuu•Z**
132. **hecto•X** ≡ **hekto•S/ sselu•S•ena** (SI 10²)
133. **hemi•X = half•X** q.v.
134. **hetero•X** ≡ **oku•S•yawa → F•S•yawa**
135. **holo•X** ≡ **oku•S•lamba → F•S•lamba**
136. **homeo•X** ≡ **oku•S•kyana → F•S•kyana**
137. **homo•X** ≡ **oku•S•yuwa → F•S•yuwa**
138. **hyper•X** ≡ (1) **sselu•S**
 (2) **oku•S•gwaja → F•S•gwaja**
139. **hypo•X** ≡ (1) **wapi•S**
 (2) **oku•S•nsaja → F•S•nsaja**
140. **X•i** ≡ (1) **oku•S•na**
 (2) **F•nna•Z**
141. **X•iana = X•ana** q.v.
142. **X•iatics ~ X•iatry** ≡ **kasawa•Z**
143. **X•ic ~ X•ical = X•al** q.v.
144. **X•ics ~ X•ic** ≡ **kanna•Z**
145. **idio•X = auto•X** q.v.

146. X•ile ≡ (1) F_{pro}•a•(o)•ku•R•a
 (2) oku•R•ayinza → F•R•ayinza
 (3) oku•S_{num}•kuma
147. X•illion ≡ aka•S_{num}•kkadde
148. X•illionth ≡ aka•S_{num}•a•kkadde
149. in•X¹ ≡ oku•R•**Uka/ Ula**
150. in•X² ≡ (1) oku•S•mwa → F•S•mwa
 (2) oku•S•mwala
151. X•in(e) ≡ F•vaama•Z
152. infra•X ≡ (1) oku•S•wansa → F•S•wansa
 (2) ssepi•S
153. X•ing ≡ (1) oku•R•a/ wa
 (2) obu•R•e/ i
 (3) F_a•R•a/ wa
154. inter•X ≡ (1) oku•S•wakata → F•S• wakata
 (2) oku•R•agana
 (3) ttaba•F₊•S
155. intensive X ≡ F•R•anyiito (<oku•R•anyiita) F•R•anyiit•L
156. intra•X ≡ (1) oku•S•kwamwa → F•S• kwamwa
 (2) oku•S•mwamwa → F•S• mwamwa
157. intro•X ≡ oku•S•mwala → oku•R• amwala

158. **X•ish** ≡ (1) **F•S•nga**
 (2) **F•nna•Z**
 (3) **F_a•R•/k/fu, F_a•R•/l/vu**
159. **X•ism** ≡ (1) **F•kiza/ laba•Z** [IDEOLOGY/ THEORY]
 (2) **eli•S, R⁺•a(•Z)** [SUPERAVERAGE]
160. **iso•X = equi•X** q.v.
161. **X•ite** ≡ (1) **F•S•nga**
 (2) **F•nna•Z**
162. **X•itis** ≡ **F•yaka•Z**
163. **X•ive** ≡ **F•R•i**
164. **X•ize** ≡ **oku•S•wala/ waza**
165. **juxta•X** ≡ **oku•S•laana → oku•R•alaana**
166. **kilo•X** ≡ **kilo•S/ olu•S•ena** (SI 10³; Computing 2¹⁰)
167. **X•latry** ≡ **F•sinza•Z**
168. **X•less** ≡ **F•S•wunu**
169. **X•let** ≡ **aka•S**
170. **X•like** ≡ **F•wanga•Z**
171. **X•logy** ≡ **kanna•Z, (kalojja•Z)**
172. **macro•X** ≡ (1) **walu•S•ena**
 (2) **F•S•ddene, F•S•ggwanvu**
 □ **ultramacro•X** ≡ **F•S•ddeneja**
173. **macromacro•X** ≡ (1) **wagu•S**
 (2) **F•S•ddenejja, F•S•ggwanvujja**

174. **mal•X = dys•X** q.v.

175. **X•mania** ≡ **F•lala•Z**

176. **many-X** ≡ (1) **F•F₊•S•F_{num}•ngi**
 (2) **F_{nom}•nna•F₊•S•F_{num}•ngye**
 (3) **F_a•ngibaze**
 (4) **F_{nom}•R•a•F_{num}•ngye**

177. **maxi•X** ≡ **olu•S•ena**

180. **medi•X** ≡ **oku•S•kata → F•S•kata**

181. **mega•X** ≡ **mega•S/ walu•S•ena** (SI 10⁶; Computing 2²⁰)

182. **mer•X ~ X•mer ~ X•merous** ≡ (1) **oku•S•ca → F•S•ca**
 (2) **F•S•ttundu**

183. **meso•X = medi•X** q.v.

184. **meta•X** ≡ (1) **oku•S•gonga → F•S•gonga**
 (2) **oku•S•yela → F•S•yela**
 (3) **oku•S•kyuka → F•S•kyuka**

185. **X•metrics ~ X•metry** ≡ **kapima•Z**

186. **micro•X** ≡ (1) **mikro•S/ wapi•S•ona** (SI 10⁻⁶)
 (2) **F•S•ttono**

□ **ultramicro•X** ≡ **F•S•ttonoja**; **micromicro•X** ≡ **F•S•ttonojja**

187. **micromicro•X** ≡ **waka•S**

188. **mid•X = medi•X** q.v.

189. **milli•X** ≡ **milli•S/ epi•S•ona** (SI 10⁻³)

190. **mini•X** ≡ **F•S•ttono, F•S•ffunda**

191. **mio**•X ≡ F•**keewa**•Z, oku•R•**akeewa**
192. **mixed**•X ≡ oku•S•**yawa** → F•S•**yawa**
193. **mono**•X ≡ (1) F•F₁•S•F_{num}•**mu**
 (2) F_a•**mubaze**
 (3) F_{nom}•**nna**•F•S•F_{num}•**mwe**
 (4) F_{nom}•R•**a**•F_{num}•**mwe**
194. X•**morphic** = X•**form** q.v.
195. **multi**•X = **many**-X q.v.
196. **nano**•X ≡ **nano**•S/ **ssepi**•S•**ona** (SI 10⁻⁹)
197. **neo**•X ≡ F•S•**ppya**
198. **near** X ≡ F•S•**kumpa**
199. X **network** ≡ **omutimbagano** gwa F₊•S
200. X•**nomics** ~ X•**nomy** ≡ **kanna**•Z (**kateeka**•Z)
201. **non**•X ≡ (1) F•**ta**•R•**a**/ (y)e/ **wa**•Z
 (2) F•S•**da**
202. X•**oid** ~ X•**ode** ≡ F•**wanga**•Z
203. **oligo**•X ≡ F•S•**bbatu**
204. X•**oma** ≡ F•**zimba**•Z
205. **omni**•X = **all**- X q.v.
206. **one**-X = **mono**•X q.v.
207. X **organization** ≡ **omukungo** gwa F₊•S
208. **original** X ≡ F•S•**nnona**

209. **ortho•X** \equiv $\begin{array}{ccc} \text{oku}\cdot\text{S}\cdot\text{tuuka} & \rightarrow & \text{oku}\cdot\text{R}\cdot\text{atuuka} \\ \downarrow & & \downarrow \\ \text{F}\cdot\text{S}\cdot\text{ttuuka} & & \text{F}\cdot\text{R}\cdot\text{atuuk}\cdot\text{L} \end{array}$
210. **X•ose** \equiv (1) **oku•S•na**
(2) **F•nna•Z**
211. **X•osis** \equiv **F•lwala•Z**
212. **X•ous** = **X•ose** q.v.
213. **out•X** \equiv (1) **oku•S•bwa** \rightarrow **F•S•bwa**
(2) **oku•S•bwala** \rightarrow **F•S•bwala**
(3) $\begin{array}{ccc} \text{oku}\cdot\text{S}\cdot\text{leebya} & \rightarrow & \text{oku}\cdot\text{R}\cdot\text{aleebya} \\ \downarrow & & \downarrow \\ \text{F}\cdot\text{S}\cdot\text{leeby}\cdot\text{L} & & \text{F}\cdot\text{R}\cdot\text{aleeby}\cdot\text{L} \end{array}$
214. **over•X** \equiv (1) **oku•S•gwa** \rightarrow **F•S•gwa**
(2) **oku•S•wagwa** \rightarrow **F•S•wagwa**
(3) $\begin{array}{ccc} \text{oku}\cdot\text{S}\cdot\text{sukka} & \rightarrow & \text{oku}\cdot\text{R}\cdot\text{asukka} \\ \downarrow & & \downarrow \\ \text{F}\cdot\text{S}\cdot\text{ssukka} & & \text{F}\cdot\text{R}\cdot\text{asukk}\cdot\text{L} \end{array}$
(4) **F•ssukka•Z, ssukka•Z**
215. **own-X** = **auto•X** q.v.
216. **paleo•X** \equiv **oku•S•kkaddejja** \rightarrow **F•S•kkaddejja**
217. **palin•X** = **back•X** q.v.
218. **pan•X** = **all-X** q.v.
219. **para•X¹** \equiv $\begin{array}{ccc} \text{oku}\cdot\text{S}\cdot\text{laana} & \rightarrow & \text{oku}\cdot\text{R}\cdot\text{alaana} \\ \downarrow & & \downarrow \\ \text{F}\cdot\text{S}\cdot\text{laana} & & \text{F}\cdot\text{R}\cdot\text{alaan}\cdot\text{L} \end{array}$
220. **para•X²** \equiv **F•S•ttaasa**
221. **X•parous** = **F•zaala•Z**

222. particular X	≡	oku•S•ca → F•S•ca
223. pen(e)•X	≡	F•S•kump•L
224. X•penia	≡	F•liba•Z
225. per•X = dia•X q.v.		
226. peri•X	≡	oku•S•buga → F•S•buga
227. X•person	≡	(1) omu•S•na (2) omu•(nna)•Z (3) owa•F₁•F₂•S
228. peta•X	≡	peta•S/ ssegu•S (SI 10 ¹⁵ ; Computing 2 ⁵⁰)
229. X•philia	≡	F•ee•yuna•Z
230. X•phobia	≡	F•kyawa•Z
231. pico•X	≡	piko•S/ waka•S (SI 10 ⁻¹²)
232. plagio•X	≡	F•S•ssulika
233. pleo•X	≡	F•S•ggwela
234. pluri•X	≡	F•S•ggwaka
235. poikilo•X	≡	F_a•S•kyuna
236. poly•X = many-X q.v.		
237. post•X = after-X q.v.		
238. potenti•X	≡	F•S•jjinza
239. pre•X	≡	oku•S•maasa → F•S•maasa

240. pro•X	≡	(1) oku•S•wala/ waza
		(2) oku•R•ala/ aza
		(3) F•S•g•L
		(4) omu•S•mmyuka
241. X•proof	≡	F•guma•Z
242. proper X	≡	F•S•yina
243. proto•X	≡	F•S•ssooka, F•S•nnona
244. pseudo•X	≡	F•S•ddyeka
245. quasi•X	≡	oku•S•linga
246. quecca•X	≡	qwekka•S (SI 10 ³⁰)
247. quecto•X	≡	qwekto•S (SI 10 ⁻³⁰)
248. random X	≡	oku•S•maga → oku•R•amaga ↓ ↓ F•S•mag•L F•R•amag•L □ oku•S•maga # oku•S•muga
249. X range/ series	≡	oku•S•nyila → oku•R•anyila ↓ ↓ F•S•nyila F•R•anyil•L

260. side X	≡	(1) oku•S• luuya → oku•R• aluuya
		(2) F•S• dduuya ; F•R• aluuy•L
261. similar to X	=	F• faana•Z
262. simple X	≡	F•S• nniina
263. simultaneous X	≡	F•S F _a • seelankanyi
264. single X	≡	F•S F _a • mubaze
265. sinistro•X	≡	F•S• kkono
266. sole X	≡	F•S• yakka
267. some X	≡	F•S• wunna
268. X•some	≡	(1) F•S _{num} • ma
		(2) F•S• ca
		(3) F• zaala•Z
269. X•speak	≡	F•S• ddikya
270. X-shaped	≡	F• kula•S⁺
271. X•ship	≡	F•S• ma
272. special X	≡	(1) F•S• kkiza
		(2) ttuba•Z
		□ ttuba•Z # ttaba•Z
273. X•stasis	≡	F• komya•Z
274. step•X	≡	F•S• ffumbo
275. X-style	≡	F•S• gel•a
276. X structure	≡	omuzimbe gwa F₊•S

277. **sub•X** ≡ (1) **wapi•S**
 (2) **oku•S•wansa** → **F•S•wansa**
278. **sudden X** ≡ **F•S•yanga, oku•R•ayanga**
279. **super•X** ≡ (1) **walu•S**
 (2) **F•S•gwa** □ cf **sub•X**
 (3) = **over•X** q.v.
280. **syn•X = con•X ~ com•X** q.v.
281. **X system** ≡ **omuyungo gwa F₊•S**
282. **systematic X** ≡ **F•R•amugo**
 □ **oku•R•amaga** # **oku•R•amuga**
283. **sui•X** ≡ **oku•ee•R•a**
284. **tauto•X** ≡ **F•S•kkima**
285. **tele•X** ≡ **F•S•ggwala** (<**oku•S•wala** <**ewala**)
286. **ter•X** ≡ (1) **F•F₊•F_{num}•satu**
 (2) **F_{nom}•nna•F₊•S•F_{num}•satwe**
287. **tera•X** ≡ **tera•S/ wagu•S** (SI 10¹²; Computing 2⁴⁰)
288. **top X** ≡ **F•S•ttikko**
289. **trans•X** ≡ (1) **oku•S•yima** → **oku•R•ayima**
 (2) **oku•S•lula** → **oku•R•alula**
 (3) **oku•S•yela** → **oku•R•ayela**
 (4) **oku•S•saaba** → **oku•R•asaaba**
290. **tri•X: cf bi(n)•X**
291. **X•tuple** ≡ **F•S_{num}•baze**

292. uber•X	≡	F•S•ssukkajja
293. ultra•X	≡	(1) F•S•ssukkaja (2) F•S•ddula (3) F•S•jjela
294. ultramacro•X	≡	(1) F•S•ddeneja (2) sselu•S•ena
295. ultramicro•X	≡	(1) F•S•ttonoja (2) ssepi•S•ona
296. un•X	≡	(1) F•ta•R•a•Z (2) oku•S•konta → oku•R•<i>U</i>ta (3) oku•R•<i>U</i>ka/ <i>U</i>la
297. under•X	≡	(1) oku•S•wansa; F•S•wansa (2) oku•R•addidda (3) oku•R•abogwa
298. uni•X	≡	(1) F•F₁•S•S_{num}•mu (2) F_{nom}•nna•F₁•S•F_{num}•mwe (3) F_a•mubaze (4) F_{nom}•R•a•F_{num}•mwe
299. unique X	≡	(1) oku•S•nuta → oku•R•anuta (2) F•S•nut•L; F•R•anut•L
300. X universe	≡	omuwanno gwa F₊•S (<oku•wanna)
301. universal X	≡	oku•S•wanna → F•S•wanna

317. **zetta**•X ≡ **zetta**•S/ **wagu**•S•**ena** (SI 10²¹)

11. X•bar	≡	oku•R• <i>Ika</i>
12. X•beduerftig	≡	oku•S• <i>taaga</i> = [F'•S' okwetaaga F•S]
13. X•bereit	≡	F• <i>linze/ etegese</i> •Z
14. X•bezogen	≡	oku•S• <i>jula/ ganda</i> = [F'•S' okujulila/ okugandana ne F•S] oku•S• <i>jula/ ganda</i> → F'•S' <i>jula/ ganda</i>
15. Binnen •X	≡	oku•S• <i>ndamwa</i> = [F'•S' okuba F•S eky'omunda omwo] oku•S• <i>ndamwa</i> → F•S• <i>ndamwa</i>
16. X•dicht	≡	F• <i>lemya</i> •Z
17. Doppel •X	≡	F•S• <i>bbilibaze</i>
18. durch •X	≡	oku•R• <i>ayima</i> → F•R• <i>ayim</i> •L
19. X• durstig	≡	oku•S• <i>yonta</i> → F•S• <i>yonta</i>
20. Eigen •X = Auto •X q.v.		
21. Einzel •X	≡	F•S• <i>mmubaze</i>
22. entgegen •X	≡	oku•R• <i>alila/ Uta</i>
23. Erst •X	≡	F•S• <i>ssooka</i>
24. Fach •X	≡	F•S• <i>kkugu</i>
25. X• fach	≡	F•S ⁺ _{num} • <i>baze</i>
26. X• faehig	≡	oku•S• <i>yinza</i> → F•S• <i>yinza</i>
27. Fehl •X	≡	oku•S• <i>liba</i> → oku•R• <i>aliba</i> \downarrow \downarrow oku•S• <i>liba</i> F•R• <i>alib</i> •L
28. fein •X	≡	oku•S• <i>saafa</i> → oku•R• <i>asaafa</i> \downarrow \downarrow F•S• <i>saafa</i> F•R• <i>asaaf</i> •L
29. Fern •X	≡	oku•S• <i>wala</i> → oku•R• <i>awala</i> \downarrow \downarrow F•S• <i>wala</i> F•R• <i>awal</i> •L

30. X•fertig	≡	F•linze/ etegese•Z
31. X•fest	≡	F•lemya•Z
32. X•foermig	≡	oku•S•wanga
33. fort•X	≡	oku•S•la → oku•R•ala \downarrow \downarrow F•S•la F•R•al•L
34. X•frei	≡	F•buuma/ buuka•Z
35. Ge•X	≡	oku•S•ma → oku•R•ama \downarrow \downarrow F•S•ma F•R•am•L
36. Gegen•X	≡	oku•S•konta → oku•R•Uta \downarrow \downarrow F•S•konta F•R•Ut•L
37. X•gemaess	≡	oku•S•gonda → F•S•ggonda
38. Gemein•X	≡	oku•S•wama → oku•R•awama \downarrow \downarrow F•S•wam•L F•R•awam•L
39. X•gerecht	≡	F•S•ssimba
40. Gesamt•X	≡	F•S•zzinga
41. Gleich•X	≡	oku•S•nkana → oku•R•ankana \downarrow \downarrow F•S•nkan•L F•R•ankan•L
42. Gross•X	≡	(1) F•S•nnene (2) oku•R•anena → F•R•anen•L
43. Grund•X	≡	F•S•ssingi
44. X•gut	≡	F•S•mmaali
45. X•haft	≡	oku•S•wanga → F•S•wanga
46. Halb•X	≡	F•S•jjabili

47. X•haltig	≡	F•baama•Z
48. Haupt•X	≡	oku•S•twa → F•S•twa
49. Heim•X	≡	oku•S•yeka → oku•R•ayeka \downarrow \downarrow F•S•yeka F•R•ayek•L
50. Hinter•X	≡	oku•S•bega = [F'•S' okuba F•S eky'emabega] oku•S•bega → F•S•bega
51. Hoch•X	≡	F•S•gwa
52. Hoechst•X	≡	F•S•gwajja
53. X•hungrig	≡	oku•S•yala → F•S•yala
54. Innen•X	≡	oku•S•mwa = [F'•S' okuba F•S eky'omunda] oku•S•mwa → F•S•mwa
55. inner•X	≡	oku•S•munda = [F'•S' okuba munda mwa F•S] oku•S•munda → F•S•munda
56. Kern•X	≡	F•S•ddamwa
57. Klein•X	≡	(1) F•S•ttono (2) oku•R•atona → F•R•aton•L
58. Kreuz•X	≡	(1) F•S•kkiika (2) F•S•ssaaba
59. X•kunde	≡	kamanya•Z
60. X•lang	≡	F•S•ggwanva
61. X•leer	≡	F•S•ddee
62. X•lehre	≡	kamanya•Z
63. Leicht•X	≡	F•S•ggwewa

100. **Ur•X** \equiv (1) **oku•S•nona/sooka/sibuka** \rightarrow **oku•R•anona/asoka/asibuka**
 (2) **F•S•nnona/ssooka/ssibuka; F•R•anon•L /asook•L/asibuk•L**
101. **Viel•X = Mehr•X** q.v.
102. **Vize•X** \equiv **omu•fo•Z**
103. **Voll•X** \equiv (1) **oku•S•lamba** \rightarrow **oku•R•alamba**
 (2) **F•S•ddamba F•R•alamb•L**
104. **Vor•X** \equiv **oku•S•maasa = [F'•S' okuba mu maaso ga F•S]**
oku•S•maasa \rightarrow **F•S•maasa**
105. **Vorder•X** \equiv **oku•S•bela = [F'•S' okuba F•S eky'embeli]**
oku•S•bela \rightarrow **F•S•bela**
106. **X•waerts** \equiv **oku•S•lila/ waZa**
107. **X•weise = X•massen** q.v.
108. **Weiter•X = Fort•X** q.v.
109. **X•wert** \equiv (1) **oku•S•saana** \rightarrow **oku•R•asaana**
 (2) **F•S•ssaana; F•R•asaan•L**
110. **X•wesen** \equiv **ebya•F₁•F₂•S**
111. **wieder•X** \equiv **oku•S•nata** \rightarrow **oku•R•anata**
 \downarrow \downarrow
F•S•nat•L F•R•anat•L
112. **Wohl•X** \equiv (1) **oku•R•alunga**
 (2) **F•R•alung•L**
113. **X•wuerdig = X•wert** q.v.
114. **zurecht•X = recht•X** q.v.
115. **zusammen•X** \equiv **oku•R•awama** \rightarrow **F•R•awam•L**

116. **Zwischen•X**

≡ oku•S•wakata = [F'•S' okuba mu makkati ga F•S]

oku•S•wakata → F•S•wakata

PART 3: DEFINING SPECIALIZED LUGANDA AFFIXES

01. **F•R•a/ aja/ ajja** = [oku•R•a ku ddaala elisooka/ ely'okubili/ ely'okusatu]
02. **F•S•ja** = [F•S ekya digri ey'okubili]
03. **F•S•jja** = [F•S ekya digri ey'okusatu]
04. **F•S•Ø/ ja/ jja** = [F•S eky'eddaala elisooka/ ely'okubili/ ely'okusatu]
05. **oku•R•abogwa** = [oku•R•a mu ngeli y'ekibogwe] † F•R•abogw•L
06. **oku•R•abuba** = [oku•R•a obubi] † F•R•abub•L
07. **oku•R•abuga** = [oku•R•a mu kubugiliza] † F•R•abug•L
08. **oku•R•agala** = [oku•R•a okwolekela wansi] † F•R•agal•L
09. **oku•R•ageenya** = [oku•R•a mu ngeli y'okugeegeenya] † F•R•ageeny•L
10. **oku•R•agela** = [oku•R•a mu bigelo] † F•R•agel•L
11. **oku•R•agula** = [oku•R•a okwolekela waggulu] † F•R•agul•L
12. **oku•R•aka** = [oku•R•a emabega] † F•R•ak•L
13. **oku•R•akiika** = [oku•R•a obukiika] † F•R•akiik•L
14. **oku•R•akoma** = [okukoma oku•R•a]
15. **oku•R•ala** = [oku•R•a mu maaso] † F•R•al•L
16. **oku•R•aleebya** = [okuleebya mu ku•R•a] † F•R•aleeby•L
17. **oku•R•alila** = [oku•R•a mu kusembelela] † F•R•alil•L
18. **oku•R•alunga** = [oku•R•a obulungi] † F•R•alung•L
19. **oku•R•ama** = [oku•R•/la mu kibinja] † F•R•am•L
20. **oku•R•amaga** = [oku•R•a okulimu okumagamaga] † F•R•amag•L
21. **oku•R•amala** = [oku•R•a nga kumalayo] † F•R•amal•L
22. **oku•R•amuga # oku•R•amaga** q.v.
23. **oku•R•annyhonga** = [oku•R•/la ku mutindo omunnyhongo] † F•R•annyhong•L
24. **oku•R•anyila** = [oku•R•a okw'omu lunyiilili] † F•R•anyil•L

25. oku•R•asaana = [okusaanila oku•R•a]
26. oku•R•asoba = [oku•R•a mu ngeli ensobu]
27. oku•R•asukka = [okusukka mu ku•R•a] † F•R•asukk•L
28. oku•R•atanda = [okutandika oku•R•a]
29. oku•R•atela = [okutela oku•R•a] † F•R•atel•L
30. oku•R•atona = [oku•R•a mu ngeli y'okutona] † F•R•aton•L
31. oku•R•awaga = [okweyongela mu ku•R•a] † F•R•awag•L
32. oku•R•awama = [oku•R•(I)a awamu] † F•R•awam•L
- oku•R•awama # oku•R•awuma
33. oku•R•awela = [okumala/ okutwala ekiseela mu ku•R•a]
34. oku•R•awuga = [okukendeela mu ku•R•a] † F•R•awug•L
35. oku•R•awuma # oku•Rawama q.v.
36. oku•R•ayima = [oku•R•a nga kuyitilamu ddala] † F•R•ayim•L
37. oku•R•ayinza = [okuyinza oku•R•a] † F•R•ayinza
38. oku•R•anyiita = [okunyiinyiitila oku•R•a] † F•R•anyiit•L
39. oku•R•Uma # oku•R•ama q.v.
40. oku•R•ya = [okuleetela oku•R•a] † F•R•y•L
41. oku•S•ba = [okukiikilila F•S] † F•S•ba
42. oku•S•bela = [okuba F•S eky'embeli] † F•S•bela
43. oku•S•buga = [okuba F•S eky'olubugilizo] † F•S•buga, F•R•abug•L
44. oku•S•bwa = [okuba F•S eky'ebwelu] † F•S•bwa
45. oku•S•bwaka = [okusika okuva ebwelu wa F•S] † F•S•bwak•L
46. oku•S•bwala = [okusindika ebwelu wa F•S] † F•S•bwal•L
47. oku•S•bwela = [okuba ebwelu wa F•S] † F•S•bwela
48. oku•S•ca = [okuba ekitundu kya F•S] † F•S•ca

49. oku•S•da = [obu•ta•S•fa ne obu•ta•S•ga] † F•S•da
50. oku•S•dda = [okuba F•S ekyā bulijjo] † F•S•dda
51. oku•S•fa = 1) [okuba F•S mu bukendeēvu] † F•S•fa
 □ oku•S•fa # oku•S•wafa
 2) [okuwugula F•S] † F•S•f•L
52. oku•S•ga = 1) [okuba F•S mu bungī] † F•S•ga
 2) [okuwagila F•S] † F•S•g•L
53. oku•S•gala = [okuba F•S ekyolekela wansi] † F•S•gala
54. oku•S•gela = 1) [okuba mu ngeli ya F•S] † F•S•gela
 2) [okuteeka F•S mu bigelo] † F•S•gel•L
55. oku•S•gonga = [okuba emabega wa F•S] † F•S•gonga, F•R•agong•L
56. oku•S•gula = [okuba F•S ekyolekela waggulu] † F•S•gula
57. oku•S•gwa = [okuba F•S ekyā waggulu] † F•S•gwa
58. oku•S•ka = [okuyolekela emabega okuva ku F•S] † F•S•ka, F•R•ak•L
59. oku•S•kasa = [okukakasa F•S] † F•S•kas•L
60. oku•S•kata = [okuba F•S ekyā wakati] † F•S•kata
61. oku•S•kiika = [okuba F•S eky'obukiika] † F•S•kiika
62. oku•S•kila = [okukila F•S] † F•S•kila, F•R•akil•L
63. oku•S•konta = [okukontana ne F•S] † F•S•konta, F•R•akont•L
64. oku•S•kumpa = (1) [okuba F•S eky'okumpi] † F•S•kumpa
 (2) [kumpi okufuuka F•S] † F•S•kump•L
65. oku•S•kunga = [okuba F•S eky'okungulu] † F•S•kunga
66. oku•S•kuuma = [okukuuma F•S] † F•S•kuum•L

67. oku•S•kwa = [okuba F•S eky'okwo] † F•S•kwa
68. oku•S•kwamwa = [okuba F•S eky'okwo ela eky'omwo] † F•S•kwamwa
69. oku•S•kyana # oku•S•kyuna q.v.
70. oku•S•kyuka = [okukyuka mu F•S] † F•S•kyuk•L
71. oku•S•kyuna = [okukyukana mu F•S] † F•S•kyuna
 □ oku•S•kyuna # oku•S•kyana q.v.
72. oku•S•la = [okuyolekela mu maaso okuva ku F•S] † F•S•la, F•R•al•L
73. oku•S•laana = [okuba F•S eky'oku mulilaano] † F•S•laana, oku•R•alaana
74. oku•S•lala = [okuba ekimu ku bilala] † F•S•lala
75. oku•S•lalama = [okuba ekibinja kya F₊•S•lala] † F•S•lalama
76. oku•S•lamba = [okuba F•S ekilamba] † F•S•lamba, F•R•alamb•L
77. oku•S•leebya = [okuleebya mu F•S] † F•S•leeby•L
78. oku•S•lila = [okusembelela F•S] † F•S•lil•L, F•R•alil•L
 □ oku•S•lila # oku•S•viila
79. oku•S•linga = [okuba nga F•S mu ngeli enkyamu] † F•S•linga
80. oku•S•lula = [okubeela ku ludda luli olwa F•S] † F•S•lula
 □ F•S•lula # F•S•luna q.v.
81. oku•S•luna = [okubeela ku ludda luno olwa F•S] † F•S•luna
 □ F•S•luna # F•S•lula q.v.
82. oku•S•luuya = [okuba F•S eky'oku luuyi] † F•S•luuya
83. oku•S•ma = [okuba ekibinja kya F₊•S] † F•S•ma
84. oku•S•maala = [okuba emmaali ya F•S] † F•S•maala
85. oku•S•maasa = [okuba mu maaso ga F•S] † F•S•maasa, F•R•amaas•L

86. oku•S•maga = [okuba F•S eky'okumagamaga] † F•S•mag•L
87. oku•S•mala = [ekimalayo F•S] † F•S•mala F•R•amala
88. oku•S•munda = [okuba munda mwa F•S] † F•S•munda
89. oku•S•mwa = [okuba F•S eky'omunda] † F•S•mwa
90. oku•S•mwala = [okusindika munda mu F•S] † F•S•mwala•L
91. oku•S•mwamwa = [okuba F•S eky'omwomwo] † F•S•mwamwa
92. oku•S•na = [okwekuusa ku F•S] † F•S•na
 \square F•S•na = F•nna•Z q.v.
93. oku•S•nata = [okufuuka eky'omulundi omulala] † F•S•nat•L
94. oku•S•nda = [okubeela ku nsonda ne F•S] † F•S•nda
95. oku•S•ndamwa = [okuba F•S eky'omunda omwo] † F•S•ndamwa
96. oku•S•nkana = [okwenkana mu F•S] † F•S•nkana
97. oku•S•nkuna # oku•S•nkana q.v.
98. oku•S•nnana # oku•S•nnona q.v.
99. oku•S•nnona = [okuba eky'ennono ya F•S] † F•S•nnona, F•R•annon•L
100. oku•S•nsa = [okuba F•S eky'a wansi] † F•S•nsa
101. oku•S•nuta # oku•S•nata q.v.
102. oku•S•nwa = [okuba omunwe gwa F•S] † F•S•nwa
103. oku•S•nyila = [okuba olunyilili lwa F₊•S] † F•S•nyila
104. oku•S•nywama = [okuba ekibinja kya F₊•S•nywa] † F•S•nywama
105. oku•S•pa = [okuba kinnakibinja kya F•S] † F•S•pa
106. oku•S•saaba = [okuba F•S eky'okusaabala] † F•S•saab•L, F•R•asaab•L
107. oku•S•singa = [okuba omusingi gwa F•S]

108. oku•S•suula = [okwesuula okuva ku F•S] ⊢ F•S•suula, F•R•asuul•L
109. oku•S•ta = [okutonda F•S] ⊢ F•S•t•L
110. oku•S•tola = [okufuuka ekitole kya F•S] ⊢ F•S•tol•L
111. oku•S•twa = [okuba omutwe gwa F•S] ⊢ F•S•twa
112. oku•S•va = [okuba ekilamba kya F•S] ⊢ F•S•va
113. oku•S•viila = [okuviila F•S] ⊢ F•S•viil•L, F•R•aviil•L
 □ oku•S•viila # oku•S•lila q.v.
114. oku•S•wa = [okuba ekikole ekiva mu F•S] ⊢ F•S•wa
115. oku•S•waaya = [okuba eki/ akawaayilo kya/ ka F•S] ⊢ F•S•waaya, F•R•awaay•L
116. oku•S•waca = [okufuuka ekitundu kya F•S] ⊢ F•S•wac•L
117. oku•S•wadda = [okufuuka F•S ekya bulijjo] ⊢ F•S•wadd•L
118. oku•S•wafa = 1) [okukendeela mu bungi bwa F•S] ⊢ F•S•waf•L
 2) [okuwugila F•S] ⊢ F•S•waf•L
119. oku•S•waga = 1) [okweyongela mu bungi bwa F•S] ⊢ F•S•wag•L
 2) [okuwugila F•S] ⊢ F•S•wag•L
120. oku•S•wagwa = [okuba waggulu wa F•S] ⊢ F•S•wagwa
121. oku•S•wakata = [okuba mu makkati ga F•S] ⊢ F•S•wakata
122. oku•S•wala¹ = [okufuuka F•S] ⊢ F•S•wal•L
123. oku•S•wala² = [okubeela ewala mu F•S] ⊢ F•S•wala, F•R•awal•L
124. oku•S•wama = [okufuuka ekibinja kya F₊•S] ⊢ F•S•wam•L,
 F•R•awam•L □ oku•S•wama # oku•S•wuma q.v.
125. oku•S•wana = [okwekuuta ku F•S] ⊢ F•S•wan•L
126. oku•S•wanda = [okukyuka mu nsonda ne F•S] ⊢ F•S•wand•L

127. oku•S•wanna = [okuba ekya byonna/ wonna] † F•S•wanna
128. oku•S•wansa = [okuba wansi wa F•S] † F•S•wansa
129. oku•S•wanwa = [okufuuka omunwe gwa F•S] † F•S•wanw•L
130. oku•S•wapa = [okufuuka kinnakibinja kya F•S] † F•S•wap•L
131. oku•S•watwa = [okufuuka omutwe gwa F•S] † F•S•watw•L
132. oku•S•wava = [okufuuka ekilamba kya F•S] † F•S•wav•L
133. oku•S•wawa = [okufuuka ekikole ekiva mu F•S] † F•S•waw•L, F•S•way•L
134. oku•S•wila = [okufuuka okubaamu/ okubaako F₍₊₎•S] † F•S•wil•L
135. oku•S•wola = [okufuuka F•S empola] † F•S•wol•L, F•R•awol•L
136. oku•S•wuca # oku•S•waca q.v.
137. oku•S•wudda = [okufaaka F•S ekya bulijjo] † F•S•wudd•L
138. oku•S•wufa # oku•S•wafa q.v.
139. oku•S•wuga = [okukendeela mu bungi bwa F•S] † F•S•wug•L
140. oku•S•wuka # oku•S•wala
141. oku•S•wula = (1) [okuleetela oku•S•wuka] † F•S•wul•L
(2) [oku•S•wuna
142. oku•S•wuma # oku•S•wama q.v.
143. oku•S•wuna # oku•S•wana q.v.
144. oku•S•wunda # oku•S•wanda
145. oku•S•wunda = [okukyaka mu nsonda ne F•S] † F•S•wund•L
146. oku•S•wunwa # oku•S•wanwa q.v.
147. oku•S•wupa # oku•S•wapa q.v.
148. oku•S•wutwa # oku•S•watwa q.v.

149. oku•S•**wuwa** # oku•S•**wawa** q.v.
150. oku•S•**wuwa** # oku•S•**wawa** q.v.
151. oku•S•**wuwa** # oku•S•**wawa** q.v.
152. oku•S•**yana** = [okuba omwana wa/ gwa F•S]
153. oku•S•**yanga** = [okufuuka F•S amangu] ⊢ F•S•**yang**•L, F•R•**ayang**•L
 □ oku•S•**yang** # oku•S•**wola** q.v.
154. oku•S•**yawa** = [okuyawukana ne F•S ekili mu F₊•S]
 □ F•S•**yawa** # F•S•**yuwa** q.v.
155. oku•S•**yela** = [okuba F•S eky'eli] ⊢ F•S•**yela**
156. oku•S•**yima** = [okuba F•S ekiyitilamu ddala] ⊢ F•S•**yima**
157. oku•S•**yina** = [okuba F•S F_{pro}•ennyini] ⊢ F•S•**yina**
 □ oku•R•**ayina** = [oku•R•a okulimu F•R•I F_{pro}•ennyini]
 ⊢ F•R•**ayin**•L
158. oku•S•**yunga** = [okuyunga F₊•S]
159. oku•S•**yuwa** # oku•S•**yawa** q.v.
160. oku•S•**za** = [okuzikiliza F•S] ⊢ F•S•**z**•L
161. oku•S•**za** # oku•S•**ta** q.v.
162. oku•S•**zomba** = [okubeela ku njuyi zombilili] ⊢ F•S•**zomba**/ F•R•**azomb**•L
163. omu•**kuu**•Z = [omukulu wa Z]
164. omu•**sibe**•Z = [oyo asibiddwa ku Z] ⊢ F•**sibe**•Z
165. omu•**waga**•Z = [oyo awagila Z] ⊢ F•**waga**•Z
166. omu•**wuga**•Z # omu•**waga**•Z q.v.

PART 4: LUGANDA-ENGLISH FORMULAE

01. aka•S	≡	X•cule ~ X•culus ~ X•cle, X•let
02. aka•S•ona	≡	10⁻¹⁸ atto•X
03. aka•S_{num}•a•kkadde	≡	X•illionth
04. aka•S_{num}•kkadde	≡	X•illion
05. eki•kiza/ laba•Z	≡	X•ism □ omu•kiza/ laba•Z ≡ X•ist
06. ekiseela•C⁺	≡	X duration/ time, period
07. epi•S•ona	≡	10⁻³ milli•X, mini•X
08. F•baama/ baaka•Z	≡	X•ferous/ gerous
09. F•buuma/ buuka•Z	≡	X•free
10. F•ee•yuna	≡	X•philia
11. F•faana•Z	≡	similar to X
12. F•guma•Z	≡	X•proof
13. F•jjudde•Z	≡	X•ful
14. F•keewa•Z	≡	mio•X
15. F•koba•Z	≡	X•graph
16. F•koba•Z	≡	X•graphy
17. F•kobwa•Z	≡	X•gram
18. F•kola•Z	≡	X•facient
19. F•komya•Z	≡	X•stasis
20. F•kula•S⁺	≡	X•form, X•morphic, X-shaped
21. F•kyawa•Z	≡	X•phobia
22. F•lala•Z	≡	X•mania
23. F•leela•Z	≡	empty-X
24. F•liba•Z	≡	X•penia

25. F•linze•Z	≡	X-ready
26. F•luma•Z	≡	X•algia
27. F•lwala•Z	≡	X•iasis ~ X•osis
28. F•nna•Z	≡	X•al, X•ed, X•er, X•ese, X•i, X•ic, X•ical, X•ish,
29. F•R•abogw•L	≡	under•X
30. F•R•addidd•L	≡	under•X
31. F•R•amug•L	≡	systematic•X
32. F•R•anyiito, F•R•anyiit•L	≡	intensive X
33. F•R•anyuut•L	≡	extensive X
34. F•R•ayinza	≡	X•ile
35. F•R•e•jjabili	≡	half-X•ed, semi-X•ed
36. F•R•lil•L, F•R•alil•L	≡	ad•X, X•ward
37. F•S	≡	10 ⁰ Ø•X
38. F•S•bbatu	≡	oligo•X
39. F•S•bbaziso	≡	computer X
40. F•S•bela	≡	front X
41. F•S•bijja, F•R•abijj•L	≡	caco•L
42. F•S•buga, F•R•abug•L	≡	circum•X, peri•X
43. F•S•bwa	≡	ecto•X, ex•X
44. F•S•bwa, F•S•bwal•L	≡	out•X
45. F•S•bwal•L	≡	exo•X, extro•X
46. F•S•bwela	≡	extra•X
47. F•S•ca	≡	particular X, X•mer ~ X•merous, X•some
48. F•S•da	≡	non•X
49. F•S•ddene	≡	macro•X

50. F•S•ddeneja	≡	ultramacro•X
51. F•S•ddenejja	≡	macromacro•X
52. F•S•ddikya	≡	X•speak
53. F•S•ddula	≡	ultra•X
54. F•S•dduuya, F•R•aluuy•L	≡	side-X
55. F•S•ddyeka	≡	pseodo•X
56. F•S•ddyo	≡	dextro•X
57. F•S•f•L	≡	anti•X
58. F•S•ffumbo	≡	step•X
59. F•S•ffunda	≡	mini•X
60. F•S•g•L	≡	pro•X
61. F•S•gala, F•R•agal•L	≡	cata•X, down•X
62. F•S•gela	≡	X•fashion, X•esque, X•style
63. F•S•ggaali	≡	auto•X
64. F•S•ggatte	≡	compound X
65. F•S•gginge	≡	fake X
66. F•S•ggwaka	≡	pluri•X
67. F•S•ggwala	≡	tele•X
68. F•S•ggwanvu	≡	macro•X
69. F•S•ggwela	≡	pleo•X
70. F•S•gonga	≡	after•X, après•X, meta•X, post•X
71. F•S•gula, F•R•agul•L	≡	ana•X, ex•X, up•X
72. F•S•gwa	≡	super•X
73. F•S•gwa, F•S•waggwa	≡	over•X
74. F•S•gwaja	≡	hyper•X

75. F•S•jjabili	≡	demi•X, half•X, hemi•X
76. F•S•jjela	≡	ultra•X
77. F•S•jjinza	≡	potenti•X
78. F•S•ka, F•R•ak•L	≡	back•X, palin•X, retro•X
79. F•S•kas•L, F•R•akas•L	≡	counter•X, X counterpart
80. F•S•kata	≡	medi•X, meso•X mid•X
81. F•S•kila, F•R•akil•L	≡	further•X
82. F•S•kima	≡	same-X
83. F•S•kkaali	≡	complex X
84. F•S•kkaddejja	≡	paleo•X
85. F•S•kkasi	≡	cyber•X
86. F•S•kkima	≡	tauto•X
87. F•S•kkise	≡	crypto•X
88. F•S•kkiza	≡	special X
89. F•S•kkono	≡	sinistro•X
90. F•S•kkyenka	≡	virtual X
91. F•S•konta, F•R•Ut•L	≡	anti•X, contra•X ~ counter•X, enantio•X, un•X
92. F•S•kump•L	≡	pen(e)•X
93. F•S•kumpa	≡	near X
94. F•S•kunga	≡	epi•X
95. F•S•kwamwa	≡	intra•X
96. F•S•kyana	≡	homeo•X
97. F•S•kyuka	≡	meta•X
98. F•S•laana, F•R•alaan•L	≡	juxta•X, para•X
99. F•S•lala	≡	allo•X

100.F•S•lalama	≡	X•eme
101.F•S•lamba	≡	holo•X
102.F•S•leebya•L, F•R•aleebya•L	≡	out•X
103.F•S•leka	≡	non•X
104.F•S•linga	≡	quasi•X
105.F•S•lula	≡	trans•X
106.F•S•luna	≡	cis•X
107.F•S•lunga, F•R•alung•L	≡	bene•X
108.F•S•ma	≡	X•ad, X•age, X•ati, X•dom, X•ship
109.F•S•ma	≡	X•ure
110.F•S•maala	≡	X•ana ~ X•iana
111.F•S•maasa, F•R•amaas•L	≡	ante•X, fore•X, pre•X
112.F•S•maga, F•R•amag•L	≡	random•X
113.F•S•mala, F•R•amal•L	≡	co•X
114.F•S•mmyuka	≡	vice – X
115.F•S•mwa	≡	en•X ~ endo•X ~ ento•X ~ in•X
116.F•S•mwal•L	≡	in•X
117.F•S•mwamwa	≡	intra•X
118.F•S•na	≡	X•al, X•an, X•ar, X•ferous ~ X•gerous, X•ful, X•i, X•ic, X•ical, X•ish, X•ite, X•ose, X•ous
119.F•S•ngibaze	≡	many- X, multi- X, poly•X
120.F•S•nkana, F•R•ankan•L	≡	equi•X, iso•X
121.F•S•nkuna	≡	aniso•X
122.F•S•nnana	≡	artificial X
123.F•S•nniina	≡	haplo•X

124.F•S•nniina	≡	simple X
125.F•S•nnona	≡	original X, proto•X ur•X
126.F•S•nsaja	≡	hypo•X
127.F•S•nut•L, F•R•anut•L	≡	unique•X
128.F•S•nyila, F•R•anyil•L	≡	X range/ series
129.F•S•nywama	≡	X•ware, X•alia
130.F•S•ppya	≡	neo•X
131.F•S•saab•L, F•R•asaab•L	≡	cross•X, dia•X, per•X
132.F•S•ssigile	≡	deputy X
133.F•S•ssonja	≡	discrete X □ F•S•ssonja # F•S•ssanja
134.F•S•ssooka	≡	proto•X
135.F•S•ssukka, F•R•asukk•L, ssukka•Z	≡	over•X
136.F•S•ssukkaja	≡	ultra•X
137.F•S•ssukkajja	≡	uber•X
138.F•S•ssulika	≡	plagio•X
139.F•S•suul•L	≡	apo•X
140.F•S•tona, F•R•aton•L	≡	calli•X
141.F•S•ttaasa	≡	para•X
142.F•S•ttikko	≡	top•X
143.F•S•ttono	≡	micro•X
144.F•S•ttundu	≡	X•mer ~ X•merous
145.F•S•ttuuka, F•R•attuuk•L	≡	ortho•X, recti•X
146.F•S•va	≡	holo•X
147.F•S•viil•L, F•R•aviil•L	≡	ab(s)•X
148.F•S•waaya, F•R•awaay•L	≡	by(e)•X

149.F•S•wakata	≡	inter•X
150.F•S•wal•L, F•S•waw•L	≡	X•escent
151.F•S•wala	≡	apo•X, far
152.F•S•wam•L, F•R•awam•L	≡	co•X, coeno•X, common X, con•X ~ com•X, syn•X ~ sym•X
153.F•S•wanna	≡	universal X
154.F•S•wansa	≡	infra•X, sub•X
155.F•S•wansa, F•R•awans•L	≡	infra•X, sub•X, under•X
156.F•S•way•L	≡	X•genesis
157.F•S•wilo	≡	X•arium ~ X•ary, X•etum
158.F•S•wol•L, F•R•awol•L	≡	gradual X
159.F•S•wul•L	≡	ex•X
160.F•S•wunna	≡	some X
161.F•S•wunu	≡	an•X ~ a•X, X•less
162.F•S•yakka	≡	sole X
163.F•S•yanga, F•R•ayang•L	≡	sudden•X
164.F•S•yanna	≡	all-X, omni•X, pan•X
165.F•S•yawa	≡	hetero•X, mixed-X
166.F•S•yela	≡	trans•X
167.F•S•yela, F•R•ayel•L	≡	extra•X, meta•X
168.F•S•yima, F•R•ayim•L	≡	dia•X, cross•X, ex•X, per•X, through•X
169.F•S•yin•L, F•R•ayin•L	≡	auto•X, eigen•X, idio•X, own•X, self•X,
170.F•S•yina	≡	proper•X
171.F•S•yuwa	≡	homo•X, same-X
172.F•S•zomba	≡	ambi•X, amphi•X

173.F•S•zzibu	≡	dys•X, mal•X
174.F•S•zzinge	≡	comprehensive X
175.F•saama•Z	≡	X•ectomy
176.F•sinza•Z	≡	X•latry
177.F•S _{num} •baze	≡	X•fold
178.F•S _{num} •baze	≡	X•tuple
179.F•S _{num} •kuma	≡	X•ile
180.F•S _{num} •ma	≡	X•some
181.F•vaama•Z	≡	X•in(e)
182.F•wanga•Z	≡	X•like, X•oid ~ X•ode
183.F•yaka•Z	≡	X•itis
184.F•zaala/ zaalwa•Z	≡	X•gen
185.F•zaala•Z	≡	X•parous, X•some
186.F•zimba•Z	≡	X•cele, X•oma
187.F _a •mubaze	≡	mono•X, one-X, uni•X
188.F _a •S•kyuna	≡	poikilo•X
189.ka•koba•Z	≡	X•graphy
190.ka•lojja•Z	≡	X•logy
191.ka•nna•Z	≡	X study, X•ic(s)
192.ka•pima•Z	≡	X•metrics ~ X•metry
193.ka•sawa•Z	≡	X•iatrics ~ X•iatry
194.ka•teeka•Z	≡	X•nomics ~ X•nomy
195.obu•S (~ obwa•Z)	≡	X•ate, X•dom
196.obu•S, obwa•Z	≡	X•ure
197.ogu•S•ena	≡	10 ¹⁸ exa•X

198.oku•ee•R•a	≡	sui•X, self-X
199.oku•R•adama, oku•R•adamma	≡	re•X
200.oku•R•adiza	≡	re•X
201.oku•R•agana	≡	inter•X
202.oku•R•agya	≡	re•X
203.oku•R•ala/ aza	≡	pro•X
204.oku•R•alaana	≡	juxta•X
205.oku•R•amuga # oku•R•amaga q.v.		
206.oku•R•amwala	≡	intro•X
207.oku•R•awuma # oku•R•awama q.v.		
208.oku•R•ayinza	≡	X•ile
209.oku•S•laana	≡	juxta•X
210.oku•S•luuya, oku•R•aluuya	≡	side-X
211.oku•S•mwala	≡	intro•X
212.oku•S•wala/ waza	=	X•ize
213.oku•S•wuka, oku•S•wula	≡	de•X
214.oku•S•wunwa # oku•S•wanwa q.v.		
215.oku•S•wupa # oku•S•wapa q.v.		
216.oku•S•wutwa # oku•S•watwa q.v.		
217.oku•S•wuva # oku•S•wava q.v.		
218.oku•S•wuwa # oku•S•wawa q.v.		
219.olu•S•ena	≡	10³ kilo•X, maxi•X
220.omu•fo•Z	≡	vice – X
221.omu•geenya•R+•a/ (y)e/ wa	≡	X•aster, X•ista □ F•geenya•Z ≡ X•aster
222.omu•kuu•Z	≡	head of X

223.omu•nga•Z	≡	acting X
224.omu•S•cama	≡	X•work
225.omu•S•mmyuka	≡	pro•X
226.omu•S•yung•L	≡	X•work, X system
227.omu•waga•Z	≡	pro•X
228.onu•sibe•Z	≡	X•aholic ~ •X•oholic
229.sse•B•F+•S	≡	arch•X, chief X
230.ssegu•S	≡	10¹⁵ peta•X
231.ssegu•S•ena	≡	10²⁴ yotta•X
232.ssegugu•S•ena	≡	10²⁷ ronna•X
233.sseka•S	≡	10⁻¹⁵ femto•X
234.sseka•S•ona	≡	10⁻²⁴ yocto•X
235.ssekaka•S•ona	≡	10⁻²⁷ ronto•X
236.sselu•S	≡	10² hecto•X, hyper•X
237.sselu•S•ena	≡	10⁹ giga•X, ultramicro•X
238.ssepi•S	≡	10⁻² centi•X, infra•X
239.ssepi•S•ona	≡	10⁻⁹ nano•X, ultramicro•X
240.ssessegugu•S•ena	≡	10³⁰ quecca•X
241.ssessekaka•S•ona	≡	10⁻³⁰ quecto•X
242.ttaba•F+•S	≡	inter•X
243.ttaba•Z	≡	general X, inter•X
244.ttuba•Z	≡	special X
245.wagu•S	≡	10¹² tera•X, macromacro•X
246.wagu•S•ena	≡	10²¹ zetta•X
247.waka•S	≡	10⁻¹² pico•X, micromicro•X

248. waka•S•ona	≡	10^{-21} zepto•X
249. walu•S	≡	10^1 deca•X, super•X
250. walu•S•ena	≡	10^6 mega•X, macro•X
251. wapi•S	≡	10^{-1} deci•X, hypo/ sub•X
252. wapi•S•ona	≡	10^{-6} micro•X
253. Z₁•a•Z₂	≡	X₁ of X₂
254. Z₁•li•Z₂	≡	X₁ per X₂
255. Z-m	≡	e-X