

FORMULAE FOR COINING SPECIALIZED
LUGANDA TERMS

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ABBREVIATIONS AND SYMBOLS

F	prefix
F ₊	prefix in plural
F _a	adjectival prefix
F _{nom}	nominal prefix
F _{pro}	pronominal prefix
H	suffix
<i>I</i>	<i>e or i</i>
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>	<i>o or u</i>
W	word in English
X	constituent of a word in English
Y	word in Luganda
Z	constituent of a word in Luganda

- waZa** positive suffix in Luganda such that **•waZa # •wuZa** and
- waZa = •wabwa/ •waca/ •waga/ •wagwa/ •waja/ •wakwa/ •wala/ •wama/ •wamwa/ •wana/ •wanwa/ •wanywa/ •wapa/ •wata/ •watwa/ •wava/ •wawa**
- wuZa** negative suffix in Luganda such that **•wuZa # •waZa** and
- wuZa = •wubwa/ •wuca/ •wuga/ •wugwa/ •wuja/ •wukwa/ •wuka/ •wuma/ •wumwa/ •wuna/ •wunwa/ •wunywa/ •wupa/ •wuta/ •wutwa/ •wuva/ •wuwa**
- agglutinational boundary (in Luganda) ; syllable boundary (in English)
 - = in-language synonym
 - # contrasted with
 - ≡ posited cross-language equivalent
 - / alternative
 - ~ variant form
 - < from
 - special note

16. **an•X ~ a•X** \equiv **oku•S•wuna** \rightarrow **F•S•gguna**
17. **X•an = X•al** q.v.
18. **ana•X** \equiv **oku•S•gula** \rightarrow **oku•R•agula**
 \downarrow \downarrow
F•S•ggula **F•R•agulo**
19. **X•ana ~ X•iana** \equiv **oku•S•maala** \rightarrow **F•S•mmaala**
20. **aniso•X** \equiv **oku•S•nkuna** \rightarrow **F•S•nkuno**
21. **ante•X** \equiv **oku•S•maasa** \rightarrow **oku•R•amaasa**
 \downarrow \downarrow
F•S•mmaasa **F•R•amaaso**
22. **anti•X** \equiv (1) **oku•S•konta** \rightarrow **oku•R•Uta**
 \downarrow \downarrow
F•S•kkonta **F•R•Uta**
- (2) **omu•wuga•Z**
23. **apo•X** \equiv **oku•S•wala** \rightarrow **F•S•walo**
oku•S•suula \rightarrow **F•S•ssuula**
24. **après•X = after•X** q.v.
25. **X•ar = X•al** q.v.
26. **arch•X** \equiv **sse•F₊•S** (, where $F \rightarrow F_1•F_2$)
27. **X•arium ~ X•ary** \equiv **oku•S•wila** \rightarrow **oku•R•Ila**
 \downarrow \downarrow
F•S•wilo **F•R•Ilo**
28. **artificial X** \equiv **oku•S•nana** \rightarrow **F•S•nnana**
29. **X•ary = X•arium, X•al** q.v.
30. **X•asis ~ X•osis** \equiv **F•lwala•Z**

31. **X•aster** \equiv oku•S•geenya \rightarrow oku•R•ageenya
 \downarrow \downarrow
F•S•ggeenya **F•R•ageenyo**
32. **X•ate** \equiv (1) **obu•S, obwa•Z**
 (2) see **X•al**
 (3) see **X•ad**
 (4) **oku•S•waza**
33. **X•ati = X•ad** q.v.
34. **atto•X** \equiv **atto•S/ aka•S•ona** (SI 10⁻¹⁸)
35. **auto•X** \equiv oku•S•yina \rightarrow oku•R•ayina
 \downarrow \downarrow
F•S•jjina **F•R•ayino**
36. **back•X** \equiv oku•S•ka \rightarrow oku•R•aka
 \downarrow \downarrow
F•S•kka **F•R•ako**
37. **bene•X** \equiv oku•S•lunga \rightarrow oku•R•alunga
 \downarrow \downarrow
F•S•ddunga **F•R•alungo**
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•ggwaaya **F•R•awaayo**
40. **caco•X** \equiv oku•S•bijja \rightarrow oku•R•abijja
 \downarrow \downarrow
F•S•bbijja **F•R•abijjo**

41. calli•X	≡	$\begin{array}{ccc} \text{oku}\cdot\mathbf{S}\cdot\mathbf{tona} & \rightarrow & \text{oku}\cdot\mathbf{R}\cdot\mathbf{atona} \\ \downarrow & & \downarrow \\ \mathbf{F}\cdot\mathbf{S}\cdot\mathbf{ttona} & & \mathbf{F}\cdot\mathbf{R}\cdot\mathbf{atono} \end{array}$
42. cata•X	≡	$\begin{array}{ccc} \text{oku}\cdot\mathbf{S}\cdot\mathbf{gala} & \rightarrow & \text{oku}\cdot\mathbf{R}\cdot\mathbf{agala} \\ \downarrow & & \downarrow \\ \mathbf{F}\cdot\mathbf{S}\cdot\mathbf{ggala} & & \mathbf{F}\cdot\mathbf{R}\cdot\mathbf{agalo} \end{array}$
43. X•cele	≡	F•zimba•Z
44. centi•X	≡	senti•S/ ssepi•S (SI 10⁻²)
45. circum•X	≡	$\begin{array}{ccc} \text{oku}\cdot\mathbf{S}\cdot\mathbf{buga} & \rightarrow & \text{oku}\cdot\mathbf{R}\cdot\mathbf{abuga} \\ \downarrow & & \downarrow \\ \mathbf{F}\cdot\mathbf{S}\cdot\mathbf{bbuga} & & \mathbf{F}\cdot\mathbf{R}\cdot\mathbf{abugo} \end{array}$
46. cis•X	≡	oku•S•luna → F•S•dduna
47. co•X	≡	<p>(1) $\begin{array}{ccc} \text{oku}\cdot\mathbf{S}\cdot\mathbf{wama} & \rightarrow & \text{oku}\cdot\mathbf{R}\cdot\mathbf{awama} \\ \downarrow & & \downarrow \\ \mathbf{F}\cdot\mathbf{S}\cdot\mathbf{wamo} & & \mathbf{F}\cdot\mathbf{R}\cdot\mathbf{awamo} \end{array}$</p> <p>(2) $\begin{array}{ccc} \text{oku}\cdot\mathbf{S}\cdot\mathbf{mala} & \rightarrow & \text{oku}\cdot\mathbf{R}\cdot\mathbf{amala} \\ \downarrow & & \downarrow \\ \mathbf{F}\cdot\mathbf{S}\cdot\mathbf{mmala} & & \mathbf{F}\cdot\mathbf{R}\cdot\mathbf{amalo} \end{array}$</p>
48. coeno•X	≡	oku•S•wama → F•S•wamo
49. common X	≡	oku•S•wama → F•S•wamo
50. complex X	≡	[F•S F_a•kaali] → F•S•kkaali
51. compound X	≡	[F•S F_a•gatte] → F•S•ggatte
52. comprehensive X	≡	[F•S F_a•zinge] → F•S•zzinge
53. computer X	≡	[F•S F_{pro}•a embaziso] → F•S•bbaziso
54. con•X ~ com•X	≡	$\begin{array}{ccc} \text{oku}\cdot\mathbf{S}\cdot\mathbf{wama} & \rightarrow & \text{oku}\cdot\mathbf{R}\cdot\mathbf{awama} \\ \downarrow & & \downarrow \\ \mathbf{F}\cdot\mathbf{S}\cdot\mathbf{wamo} & & \mathbf{F}\cdot\mathbf{R}\cdot\mathbf{awamo} \end{array}$

55. **contra•X ~ counter•X** ≡ (1) see **anti•X**
- (2) $\text{oku}\cdot\mathbf{S}\cdot\mathbf{kasa} \rightarrow \text{oku}\cdot\mathbf{R}\cdot\mathbf{akasa}$
 $\downarrow \qquad \qquad \downarrow$
 $\mathbf{F}\cdot\mathbf{S}\cdot\mathbf{kkasa} \qquad \mathbf{F}\cdot\mathbf{R}\cdot\mathbf{akaso}$
56. **X counterpart** ≡ **F•S•kkasa**
57. **cross•X** ≡ $\text{oku}\cdot\mathbf{S}\cdot\mathbf{saaba} \rightarrow \text{oku}\cdot\mathbf{R}\cdot\mathbf{asaaba}$
 $\downarrow \qquad \qquad \downarrow$
 $\mathbf{F}\cdot\mathbf{S}\cdot\mathbf{ssaaba} \qquad \mathbf{F}\cdot\mathbf{R}\cdot\mathbf{asaabo}$
58. **crypto•X** ≡ $\text{oku}\cdot\mathbf{S}\cdot\mathbf{kiba} \rightarrow \text{oku}\cdot\mathbf{R}\cdot\mathbf{akisa}$
 $\downarrow \qquad \qquad \downarrow$
 $\mathbf{F}\cdot\mathbf{S}\cdot\mathbf{kkisa} \qquad \mathbf{F}\cdot\mathbf{R}\cdot\mathbf{akiso}$
59. **X•cule ~ X•culus ~ X•cle** ≡ **aka•S**
60. **cyber•X** ≡ **F•S•kkasi**
61. **de•X** ≡ (1) $\text{oku}\cdot\mathbf{S}\cdot\mathbf{wuka}, \text{oku}\cdot\mathbf{S}\cdot\mathbf{wula}$
- (2) $\text{oku}\cdot\mathbf{S}\cdot\mathbf{wuta}, \text{oku}\cdot\mathbf{S}\cdot\mathbf{wusa}$
62. **deca•X** ≡ **deka•S/ walu•S•ena (SI 10¹)**
63. **deci•X** ≡ **desi•S/ wapi•S (SI 10⁻¹)**
64. **demi•X** ≡ $\text{oku}\cdot\mathbf{S}\cdot\mathbf{nusa} \rightarrow \mathbf{F}\cdot\mathbf{S}\cdot\mathbf{nnusa}$
65. **deputy X** ≡ **F•S•ssigile**
66. **dextro•X** ≡ $\text{oku}\cdot\mathbf{S}\cdot\mathbf{lya} \rightarrow \mathbf{F}\cdot\mathbf{S}\cdot\mathbf{ddya}$
67. **di•X** see **bi(n)•X** q.v.
68. **dia•X** ≡ (1) $\text{oku}\cdot\mathbf{S}\cdot\mathbf{yima} \rightarrow \text{oku}\cdot\mathbf{R}\cdot\mathbf{ayima}$
 $\downarrow \qquad \qquad \downarrow$
 $\mathbf{F}\cdot\mathbf{S}\cdot\mathbf{jjima} \qquad \mathbf{F}\cdot\mathbf{R}\cdot\mathbf{ayimo}$
- (2) see **cross•X** q.v.
69. **diplo•X** ≡ **F•S•bbilibaze**

70. **dis•X** ≡ (1) see **de•X** q.v.
 (2) **F•ta•R•a(•Z)**
71. **discrete X** ≡ **oku•S•nyula** → **oku•R•anyula**
 \downarrow \downarrow
F•S•nyulo **F•R•anyulo**
 □ **oku•S•nyula** # **oku•S•nyila**
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**
 \downarrow \downarrow
F•S•ggala **F•R•agalo**
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•mymoonawa)**
80. **ecto•X** ≡ **F•S•bbwa**
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•ndomma**
86. **empty- X** ≡ **F•leela•Z**

87. **en•X ~ endo•X ~ ento•X** ≡ **F•S•mmwa**
88. **enantio•X = anti•X** q.v.
89. **X•en** ≡ **F•R•wa/ e/ u**
90. **epi•X** ≡ **F•S•kkunga** (<oku•S•kunga)
91. **equi•X** ≡ **oku•S•nkana → oku•R•ankana**

$$\begin{array}{ccc} & \downarrow & \downarrow \\ \mathbf{F\bullet S\bullet nkano} & & \mathbf{F\bullet R\bullet ankano} \end{array}$$
92. **X•er = X•al** q.v.
93. **X•ery = X•al** q.v.
94. **X•esce** ≡ **oku•S•wala/ wawa → F•S•walo/ wawo**
95. **X•ese** ≡ (1) **F•S•wa/ ta**
 (2) **F•nna•Z**
 (3) **olu•nna•Z**
96. **X•esque** ≡ **oku•S•ngela → F•S•mnangela**
97. **X•etum** ≡ **F•S•wilo**
98. **eu•X** ≡ (1) **F•S•ggwoomu, F•R•a•ggwoomu**
 (2) **oku•R•awooma**

110. **X•ferous ~ X•gerous** ≡ (1) oku•S•na → F•S•nna
 (2) oku•S•baama/ baaka → F•S•bbaama/ bbaaka
111. **X•fold** ≡ oku•S_{num}•baza → F•S_{num}•baze
112. **fore•X** ≡ oku•S•maasa → oku•R•amaasa
 ↓ ↓
 F•S•mmaasa F•R•amaaso
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•bbela
117. **X•ful** ≡ (1) oku•S•na → F•S•nna
 (2) F•jjudde•Z
118. **further X** ≡ oku•S•kila → oku•R•akila
 ↓ ↓
 F•S•kkila F•R•akilo
119. **X•gen** ≡ F•zaala/ zaalwa•Z
120. **general X** ≡ ttaba•Z
121. **X•genesis** ≡ oku•S•waya → F•S•wayo
122. **X•gerous = X•ferous** q.v.
123. **giga•X** ≡ giga•S/ sselu•S•ena (SI 10⁹; Computing 2³⁰)
124. **gradual X** ≡ oku•S•wola → oku•R•awola
 ↓ ↓
 F•S•wolo F•R•awolo
125. **X•gram** ≡ F•kobwa•Z
126. **X•graph** ≡ F•koba•Z

127. **X•graphy** ≡ (1) **enkoba•Z**
 (2) **kakoba•Z**
128. **half X** ≡ oku•S•nusa → oku•R•anusa
 \downarrow \downarrow
 F•S•nnusa F•R•anuso
129. **half X•ed** ≡ (1) **F•R•e•nnusa**
 (2) **F•S•nna•nnusa**
130. **haplo•X** ≡ oku•S•niina → 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•jjawa
135. **holo•X** ≡ oku•S•va → F•S•vva
136. **homeo•X** ≡ oku•S•kyana → F•S•kkyana
137. **homo•X** ≡ oku•S•yuwa → F•S•jjuwa
138. **hyper•X** ≡ (1) **sselu•S**
 (2) **oku•S•gulaja → F•S•gulajo**
139. **hypo•X** ≡ (1) **wapi•S**
 (2) **oku•S•galaja → F•S•galajo**
140. **X•i** ≡ (1) **oku•S•wa/ ta → F•S•wo/ to**
 (2) **F•nna•Z**
142. **X•iana = X•ana** q.v.
143. **X•iatics ~ X•iatry** ≡ **kasawa•Z**
144. **X•ic ~ X•ical = X•ai** q.v.

145. **X•ics ~ X•ic** ≡ **kanna•Z**
146. **idio•X = auto•X** q.v.
147. **X•ile** ≡ (1) **F_{pro}•a•(o)•ku•R•a**
 (2) **oku•R•ayinza → F•R•ayinzo**
 (3) **oku•S_{num}•kuma**
148. **X•illion** ≡ **aka•S_{num}•kkadde**
149. **X•illionth** ≡ **aka•S_{num}•a•kkadde**
150. **in•X¹** ≡ **oku•R•Uka/ Ula**
151. **in•X²** ≡ (1) **oku•S•mwa → F•S•mmwa**
 (2) **oku•S•wamwa**
152. **X•in(e)** ≡ **F•vaama•Z**
153. **infra•X** ≡ (1) **oku•S•galaja → F•S•galajo**
 (2) **ssepi•S**
154. **X•ing** ≡ (1) **oku•R•a/ wa**
 (2) **obu•R•e/ i**
 (3) **F_a•R•a/ wa**
155. **inter•X** ≡ (1) **oku•S•wakata → F•S• wakato**
 (2) **oku•R•agana**
 (3) **ttaba•F⁺•S**
156. **intensive X** ≡ **F•R•anyiito (<oku•R•anyiita)**
157. **intra•X** ≡ (1) **oku•S•kwamwa → F•S• kkwamwa**
 (2) **oku•S•mwamwa → F•S• mmwamwa**

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

175. **mal•X = dys•X** q.v.
176. **X•mania** ≡ **F•lala•Z**
177. **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**
178. **maxi•X** ≡ **olu•S•ena**
179. **medi•X** ≡ **oku•S•kata → F•S•kkata**
180. **mega•X** ≡ **mega•S/ walu•S•ena** (SI 10⁶; Computing 2²⁰)
181. **mer•X ~ X•mer ~ X•merous** ≡ (1) **oku•S•ca → F•S•cca**
 (2) **F•S•ttundu**
182. **meso•X = medi•X** q.v.
183. **meta•X** ≡ (1) **oku•S•gonga → F•S•ggonga**
 (2) **oku•S•yela → F•S•jjela**
 (3) **oku•S•kyuka → F•S•kkyuka**
184. **X•metrics ~ X•metry** ≡ **kapima•Z**
185. **micro•X** ≡ (1) **mikro•S/ wapi•S•ona** (SI 10⁻⁶)
 (2) **F•S•ttono**
186. **micromicro•X** ≡ **waka•S**
187. **mid•X = medi•X** q.v.
188. **milli•X** ≡ **milli•S/ epi•S•ona** (SI 10⁻³)
189. **mini•X** ≡ **F•S•ttono, F•S•ffunda**
190. **mio•X** ≡ **F•keewa•Z, oku•R•akeewa**

221. **particular X** ≡ **oku•S•ca → F•S•cca**
222. **pen(e)•X = near X q.v.**
223. **X•penia** ≡ **F•liba•Z**
224. **per•X = dia•X q.v.**
225. **peri•X** ≡ **oku•S•buga → F•S•bbuga**
226. **X•person** ≡ (1) **omu•S•wo/ to (<oku•S• wa/ ta)**
 (2) **omu•(nna)•Z**
 (3) **owa•F₁•F₂•S**
227. **peta•X** ≡ **peta•S/ ssegu•S (SI 10¹⁵; Computing 2⁵⁰)**
228. **X•philia** ≡ **F•ee•yuna•Z**
229. **X•phobia** ≡ **F•kyawa•Z**
230. **pico•X** ≡ **piko•S/ waka•S (SI 10⁻¹²)**
231. **plagio•X** ≡ **oku•S•sulika → F•S•ssulika**
232. **pleo•X** ≡ **oku•S•wela → F•S•ggwela**
233. **pluri•X** ≡ **oku•S•waka → F•S•ggwaka**
234. **poikilo•X** ≡ **oku•S•kyuna → F_a•S•kkyuna**
235. **poly•X = many-X q.v.**
236. **post•X = after-X q.v.**
237. **potenti•X** ≡ **F•S•jjinza**
238. **pre•X** ≡ **oku•S•maasa → F•S•mmaasa**

248. X- ready	≡	F•linze•Z
249. recti•X	≡	oku•S•tuuka → oku•R•antuuka ↓ ↓ F•S•ttuuka F•R•atuuko
250. retro•X	≡	F•R•aka → F•R•ako
251. same-X	≡	(1) oku•S•yuwa → F•S•jjuwa (2) oku•S•kima → F•S•kkima
252. self-X	≡	(1) oku•S•yina, oku•R•ayina (2) oku•ee•R•a
253. semi•X = half•X q.v.		
254. serial X	=	F•S• nnyilo
255. side X	≡	oku•S•luuya → oku•R•aluuya ↓ ↓ F•S•dduuya F•R•aluuyo
256. similar to X	=	F•faana•Z
257. simple X	≡	F•S•nniina
258. simultaneous X	≡	F•S F _a •seelankanyi
259. single X	≡	F•S F _a •mubaze
260. sinistro•X	≡	oku•S•kkono
261. sole X	≡	oku•S•yakka → F•S•jjakka
262. some X	≡	oku•S•wunna → F•S•ggunna
263. X•some	≡	(1) F•S _{num} •mma (2) F•S•cca (3) F•zaala•Z
264. X•speak	≡	F•S•ddikya

265. X-shaped	≡	F•kula•S ⁺
266. X•ship	≡	F•S•mma
267. special X	≡	(1) F•S•kkiza (2) ttuba•Z □ ttuba•Z # ttaba•Z
268. X•stasis	≡	F•komya•Z
269. step•X	≡	F•S•ffumbo
270. X-style	≡	F•S•nnangela
271. X structure	≡	omuzimbe gwa F ₊ •S
272. sub•X	≡	(1) wapi•S (2) F•S•galo, oku•R•agala
273. sudden X	≡	F•S•jjanga, oku•R•ayanga
274. super•X	≡	(1) walu•S (2) F•S•gulo, oku•R•agula (3) = over•X q.v.
275. syn•X = con•X ~ com•X q.v.		
276. X system	≡	omuyungo gwa F ₊ •S
277. systematic X	≡	F•R•amugo □ oku•R•amaga # oku•R•amuga
278. sui•X	≡	oku•ee•R•a
279. tauto•X	≡	F•S•kkima
280. tele•X	≡	F•S•ggwala (<oku•S•wala)

281. **ter**•X ≡ (1) F•F₊•F_{num}•**satu**
 (2) F_{nom}•**nna**•F₊•S•F_{num}•**satwe**
282. **tera**•X ≡ **tera**•S/ **wagu**•S (SI 10¹²; Computing 2⁴⁰)
283. **top** X ≡ F•S•**ttikka**
284. **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**
285. **tri**•X: cf **bi(n)**•X
286. X•**tuple** ≡ F•S_{num}•**baze**
287. **uber**•X ≡ F•S•**ggulajjo**
288. **ultra**•X ≡ (1) F•S•**ggulajo**
 (2) oku•S•**lula** → oku•S•**ddula**
 (3) oku•S•**yela** → oku•S•**jjela**
289. **ultramacro**•X ≡ (1) F•S•**ggulajo**
 (2) **sselu**•S•**ena**
290. **ultramicro**•X ≡ (1) F•S•**ggalajo**
 (2) **ssepi**•S•**ona**
291. **un**•X ≡ (1) F•**ta**•R•**a**•Z
 (2) oku•S•**konta** → oku•R•**Uta**
 (3) oku•R•**Uka/ Ula**

305. **X•ware** ≡ **F•S•nnywama**
306. **X•work** = (1) **omu•S•ccama**
 (2) **omuzimbe gwa F₊•S**
 (3) **oku•S•yunga**
307. **worth X-ing, X•worthy** = **oku•saana/ gasa•ku•R•a**
308. **X•y** ≡ (1) **F_a•S•wa**
 (2) **F•nna•Z**
309. **yotta•X** ≡ **yotta•S/ ssegu•S•ena (SI 10²⁴)**
310. **yocto•X** ≡ **yokto•S/ sseka•S•ona (SI 10⁻²⁴)**
311. **zepto•X** ≡ **zepto•S/ waka•S•ona (SI 10⁻²¹)**
312. **zetta•X** ≡ **zetta•S/ wagu•S•ena (SI 10²¹)**

PART 2: GERMAN-LUGANDA FORMULAE

1. **X•aehnlich** \equiv oku•S•faana = [F'•S' okufaanana F•S]
 oku•S•faana \rightarrow F•S•ffaana
2. **Allein•X** \equiv oku•S•yakka = [F'•S' okuba F•S kyokka]
 oku•S•yakka \rightarrow F•S•jjakka
3. **Alt•X** \equiv oku•S•yaka = [F'•S' eyaliko F•S]
 oku•S•yaka \rightarrow F•S•jjaka
4. **X•anlage** \equiv F•yungo•C⁺ F•zimbe•C⁺
5. **X•arbeit** \equiv F•limu•C⁺
6. **X•arm** \equiv oku•S•weluta = [F'•S' obutawela mu F•S]
 oku•S•weluta \rightarrow F•S•ggweluta
7. **X•artig** \equiv oku•S•wanga = [F'•S' okuba nga F•S]
 oku•S•wanga \rightarrow F•S•ggwanga
8. **Aussen•X** \equiv oku•S•bwa = [F•S okuba F•S eky'ebwelu]
 oku•S•bwa \rightarrow F•S•bbwa
9. **ausser•X** \equiv oku•S•bwela = [F'•S' okuba ebwelu wa F•S]
 oku•S•bwela \rightarrow F•S•bbwela
10. **Auto•X** \equiv oku•S•yina = [F'•S' okuba F•S kyennyini]
 oku•S•yina \rightarrow F•S•jjina
 oku•S•yina \rightarrow oku•R•ayina = [F'•S'
 okwenyigila mu ku•R•a kwennyini]
 oku•R•yina \rightarrow F•R•ayino
11. **X•bar** \equiv oku•R•/ka

12. **X•beduerftig** ≡ oku•S•**taaga** = [F'•S' okwetaaga F•S]
13. **X•bereit** ≡ **F•linze/ etegese•Z**
14. **X•bezogen** ≡ oku•S•jula/ ganda = [F'•S' okujulila/ okugandana ne F•S]
 oku•S•jula/ **ganda** → F'•S' **jjula/ gganda**
15. **Binnen•X** ≡ oku•S•ndamwa = [F'•S' okuba F•S eky'omunda omwo]
 oku•S•ndamwa → F•S•ndamwo
16. **X•dicht** ≡ **F•lemya•Z**
17. **Doppel•X** ≡ **F•S•bbilibaze**
18. **durch•X** ≡ oku•R•ayima → F•R•ayimo
19. **X•durstig** ≡ oku•S•yonta → F•S•jjonta
20. **Eigen•X = Auto•X** q.v.
21. **Einzel•X** ≡ **F•S•mmubaze**
22. **entgegen•X** ≡ oku•R•alila/ *Uta*
23. **Erst•X** ≡ oku•S•sooka → F•S•ssooka
24. **Fach•X** ≡ oku•S•kuga → F•S•kkuga
25. **X•fach** ≡ **F•S⁺_{num}•baze**
26. **X•faehig** ≡ oku•S•yinza → F•S•jjinza
27. **Fehl•X** ≡ oku•S•liba → oku•R•aliba
 ↓ ↓
 oku•S•ddiba F•R•alibo
28. **fein•X** ≡ oku•S•saafa → oku•R•asaafa
 ↓ ↓
 F•S•ssaafa F•R•asafo
29. **Fern•X** ≡ oku•S•wala → oku•R•awala
 ↓ ↓
 F•S•ggwala F•R•awalo
30. **X•fertig** ≡ **F•linze/ etegese•Z**
31. **X•fest** ≡ **F•lemya•Z**
32. **X•foermig** ≡ oku•S•kula → F•S•kkula
33. **fort•X** ≡ oku•S•la → oku•R•ala
 ↓ ↓
 F•S•dda F•R•alo

69. **X•massen** \equiv $\begin{array}{ccc} \text{oku}\cdot\text{S}\cdot\text{gela} & \rightarrow & \text{oku}\cdot\text{R}\cdot\text{agela} \\ \downarrow & & \downarrow \\ \text{F}\cdot\text{S}\cdot\text{ggela} & & \text{F}\cdot\text{R}\cdot\text{agelo} \end{array}$
70. **mehr•X** \equiv (1) $\text{F}\cdot\text{F}_+\cdot\text{S}\cdot\text{F}_{\text{num}}\cdot\text{ngi}$
 (2) $\text{F}_{\text{nom}}\cdot\text{nna}\cdot\text{F}_+\cdot\text{S}\cdot\text{F}_{\text{num}}\cdot\text{ngye}$
 (3) $\text{F}_a\cdot\text{ngibaze}$
 (4) $\text{F}_{\text{nom}}\cdot\text{R}\cdot\text{a}\cdot\text{F}_{\text{num}}\cdot\text{ngye}$
71. **mit•X** \equiv $\begin{array}{ccc} \text{oku}\cdot\text{S}\cdot\text{wama} & \rightarrow & \text{oku}\cdot\text{R}\cdot\text{awama} \\ \downarrow & & \downarrow \\ \text{F}\cdot\text{S}\cdot\text{gwama} & & \text{F}\cdot\text{R}\cdot\text{awamo} \end{array}$
72. **Mittel•X ~ Zentral•X** \equiv $\text{oku}\cdot\text{S}\cdot\text{kata} = [\text{F}'\cdot\text{S}' \text{ okuba } \text{F}\cdot\text{S} \text{ ekya wakati}]$
 $\text{oku}\cdot\text{S}\cdot\text{kata} \rightarrow \text{F}\cdot\text{S}\cdot\text{kkata}$
73. **Nach•X** \equiv $\text{oku}\cdot\text{S}\cdot\text{gonga} = [\text{F}'\cdot\text{S}' \text{ okuba mabega ga } \text{F}\cdot\text{S}]$
 $\text{oku}\cdot\text{S}\cdot\text{gonga} \rightarrow \text{F}\cdot\text{S}\cdot\text{ggonga}$
74. **Nah•X** \equiv $\begin{array}{ccc} \text{oku}\cdot\text{S}\cdot\text{kumpa} & \rightarrow & \text{oku}\cdot\text{R}\cdot\text{akumpa} \\ \downarrow & & \downarrow \\ \text{F}\cdot\text{S}\cdot\text{kkumpa} & & \text{F}\cdot\text{R}\cdot\text{akumpo} \end{array}$
75. **Neben•X** \equiv $\begin{array}{ccc} \text{oku}\cdot\text{S}\cdot\text{luuya} & \rightarrow & \text{oku}\cdot\text{R}\cdot\text{aluuya} \\ \downarrow & & \downarrow \\ \text{F}\cdot\text{S}\cdot\text{dduuya} & & \text{F}\cdot\text{R}\cdot\text{aluuyo} \end{array}$
76. **Neu•X** \equiv $\begin{array}{ccc} \text{oku}\cdot\text{S}\cdot\text{ggya} & \rightarrow & \text{oku}\cdot\text{R}\cdot\text{aggya} \\ \downarrow & & \downarrow \\ \text{F}\cdot\text{S}\cdot\text{ggya} & & \text{F}\cdot\text{R}\cdot\text{aggyo} \end{array}$
77. **Nicht•X** \equiv (1) $\begin{array}{ccc} \text{oku}\cdot\text{S}\cdot\text{leka} & \rightarrow & \text{oku}\cdot\text{R}\cdot\text{aleka} \\ \downarrow & & \downarrow \\ \text{F}\cdot\text{S}\cdot\text{ddeka} & & \text{F}\cdot\text{R}\cdot\text{aleko} \end{array}$
 (2) $\text{obu}\cdot\text{ta}\cdot\text{R}\cdot\text{a} \rightarrow \text{F}\cdot\text{ta}\cdot\text{R}\cdot\text{a}$
78. **Nieder•X** \equiv $\text{oku}\cdot\text{S}\cdot\text{nsa} = [\text{F}'\cdot\text{S}' \text{ okuba } \text{F}\cdot\text{S} \text{ ekya wansi}]$
 $\text{oku}\cdot\text{S}\cdot\text{nsa} \rightarrow \text{F}\cdot\text{S}\cdot\text{nsa}$

79. **Ober•X** \equiv oku•S•gwa = [F'•S' okuba F•S ekya waggulu]
 oku•S•gwa \rightarrow F•S•ggwa
80. **X•pflichtig** \equiv oku•S•teekwa \rightarrow oku•R•ateekwa
 \downarrow \downarrow
 F•R•tteekwa F•R•ateekwo
81. **Quer•X = Kreuz•X** q.v.
82. **recht•X** \equiv oku•S•tuuka \rightarrow oku•R•atuuka
 \downarrow \downarrow
 F•S•ttuuka F•R•atuuko
83. **X•reich** \equiv oku•S•wela \rightarrow oku•R•awela
 \downarrow \downarrow
 F•S•ggwela F•R•awelo
84. **Rueck•X** \equiv oku•S•ka \rightarrow oku•R•aka
 \downarrow \downarrow
 F•S•kka F•R•ako
85. **Schein•X** \equiv oku•S•dyeka \rightarrow F•S•ddyeka
86. **Schwer•X** \equiv (1) oku•S•lemba \rightarrow oku•R•alemba
 \downarrow \downarrow
 F•S•ddemba F•R•alembo
 (2) oku•S•ziba \rightarrow oku•R•aziba
 \downarrow \downarrow
 F•S•zziba F•R•azibo
 (3) oku•S•zita \rightarrow oku•R•azita
 \downarrow \downarrow
 F•S•zzita F•R•azito
87. **X•seitig** \equiv F•nna•njuyi•S_{num}•e
88. **Selbst•X = Auto•X** q.v.
89. **X•sicher** \equiv F•lemya•Z

90. **Sonder•X** \equiv $\text{oku}\cdot\text{S}\cdot\text{yuuka} \rightarrow \text{oku}\cdot\text{R}\cdot\text{ayuuka}$
 \downarrow \downarrow
F•S•jjuuka **F•R•ayuuko**
91. **Spitzen•X** \equiv $\text{oku}\cdot\text{S}\cdot\text{tikka} \rightarrow \text{F}\cdot\text{S}\cdot\text{ttikka}$
92. **X•sucht** \equiv **F•sibe•Z**
93. **X•tauglich** \equiv $\text{oku}\cdot\text{S}\cdot\text{saana} \rightarrow \text{F}\cdot\text{S}\cdot\text{ssaana}$
94. **Teil•X** \equiv $\text{oku}\cdot\text{S}\cdot\text{tunda} \rightarrow \text{F}\cdot\text{S}\cdot\text{ttunda}$
95. **X•tuechtig** \equiv $\text{oku}\cdot\text{S}\cdot\text{saana} \rightarrow \text{F}\cdot\text{S}\cdot\text{ssaana}$
96. **Uebel•X** \equiv $\text{oku}\cdot\text{S}\cdot\text{yavva} \rightarrow \text{oku}\cdot\text{R}\cdot\text{ayavva}$
 \downarrow \downarrow
F•S•jjavva **F•R•ayavvo**
97. **Ueber•X** \equiv $\text{oku}\cdot\text{S}\cdot\text{wagwa} = [\text{F}'\cdot\text{S}' \text{ okuba waggulu wa F}\cdot\text{S}]$
 $\text{oku}\cdot\text{S}\cdot\text{wagwa} \rightarrow \text{F}\cdot\text{S}\cdot\text{ggwagwa}$
98. **Unter•X** \equiv $\text{oku}\cdot\text{S}\cdot\text{wansa} = [\text{F}'\cdot\text{S}' \text{ okuba wansi wa F}\cdot\text{S}]$
 $\text{oku}\cdot\text{S}\cdot\text{wansa} \rightarrow \text{F}\cdot\text{S}\cdot\text{ggwansa}$
99. **Ur•X** \equiv $\text{oku}\cdot\text{S}\cdot\text{nona/ sooka/ sibuka} \rightarrow \text{oku}\cdot\text{R}\cdot\text{anona/ asoka/ asibuka}$
 \downarrow \downarrow
F•S•nnona/ ssooka/ ssibuka **F•R• anono/ asoko/asibuko**
100. **Viel•X = Mehr•X** q.v.
101. **Vize•X** \equiv **omu•fo•Z**
102. **Voll•X** \equiv $\text{oku}\cdot\text{S}\cdot\text{lamba} \rightarrow \text{oku}\cdot\text{R}\cdot\text{alamba}$
 \downarrow \downarrow
F•R•ddamba **F•R•alambo**
103. **Vor•X** \equiv $\text{oku}\cdot\text{S}\cdot\text{maasa} = [\text{F}'\cdot\text{S}' \text{ okuba mu maaso ga F}\cdot\text{S}]$
 $\text{oku}\cdot\text{S}\cdot\text{maasa} \rightarrow \text{F}\cdot\text{S}\cdot\text{mmasasa}$
104. **Vorder•X** \equiv $\text{oku}\cdot\text{S}\cdot\text{bela} = [\text{F}'\cdot\text{S}' \text{ okuba F}\cdot\text{S} \text{ eky' embeli}]$
 $\text{oku}\cdot\text{S}\cdot\text{bela} \rightarrow \text{F}\cdot\text{S}\cdot\text{bbela}$

105. **X•waerts** \equiv **oku•S•lila/ waZa**
106. **X•weise = X•massen** q.v.
107. **Weiter•X = Fort•X** q.v.
108. **X•wert** \equiv **oku•S•saana** \rightarrow **oku•R•asaana**
 \downarrow \downarrow
F•S•ssaana **F•R•asaano**
109. **X•wesen** \equiv **ebya•F₁•F₂•S**
110. **wieder•X** \equiv **oku•S•nata** \rightarrow **oku•R•anata**
 \downarrow \downarrow
F•S•nnata **F•R•anato**
111. **Wohl•X** \equiv **oku•S•lunga** \rightarrow **oku•R•alunga**
 \downarrow \downarrow
F•S•ddunga **F•R•alungo**
112. **X•wuerdig = X•wert** q.v.
113. **zurecht•X = recht•X** q.v.
114. **zusammen•X** \equiv **oku•R•awama** \rightarrow **F•R•awamo**
115. **Zwischen•X** \equiv **oku•S•wakata = [F'•S' okuba mu makati ga F•S]**
oku•S•wakata \rightarrow **F•S•ggwakata**