AN ENGLISH-LUGANDA LIST OF PLE-UCE-UACE MATHEMATICS TERMS

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ACCURACY (OBUTUUKILIZI)

accuracy	≡	obutuukilizi
approximation	≡	ensembelelo/ omusembelelo
estimation	≡	okuteebeleza
error	≡	ensobi; **absolute error** ≡ ensobi ggeleggele
		relative error ≡ ensobi ennghandanyi
		percentage error ≡ ensobi nnakikumi
truncate	≡	okukecula
truncation error	≡	ensobi eva ku kukeculako
order of magnitude	≡	obusengeke bw'obunene
rounding	≡	okuttaanya
rounding error	≡	ensobi eva mu kuttaanya
"to the nearest '…'"	≡	okukoma ku '…' mu kusembelelajja
"to '…' decimal places (dp)"	≡	okukoma ku bifo '…' eby'ekkumi
significant figures (sf)	≡	ennambaba ez'omuzinzi '…'
"to '…' significant figures	≡	okukoma ku ennambaba ez'omuzinzi
nominal value	≡	omuwendo omunnyasi
tolerance	≡	obugumiikiliza

ALGEBRA (ALGEBRA)

algebra	≡	algebra
convention for letters	≡	enzikilizagano ku nnukuta
constant	≡	ekifaafu
variable	≡	ekikyusi
real variable	≡	ekikyusi wawu
coefficient	≡	ekituukilizaganyi
expression	≡	ekinyigabwelo
literal expression	≡	ekinyigabwelo ekinukutasi

term	≡	ekimiimo
like terms	≡	ebimiimo ebifaanaganyi
constant term	≡	ekifaafu
equation	≡	ekyenkano
conditional equation	≡	ekyenkano ekibeelasi
identity	≡	ekyenkanonkano
formula	≡	enkukulilo
transpose	≡	okuseetula
changing the subject	≡	okukyusa omulamwa
simplify	≡	okugonza, oku(y)anguya
substitution	≡	okusikiza
elimination	≡	okweggyako
nested multiplication	≡	embaza ensuye
degree of a term	≡	digri y'ekimiimo
degree of an expression	≡	digri y'ekinyigabwelo
linear equation	≡	ekyenkano ekilayinisi
quadratic equation	≡	ekyenkano ekibiliguzosi
satisfy	≡	okumatiza
solution	≡	ekimelengulo
unique solution	≡	ekimelengulo ekimunufu
trivial solution	≡	ekimelengulo ekibalaasi
root	≡	omulandila
trial and improvement = [trial and error]	≡	emmelengula eteebeleza
independent equations	≡	ebyenkano ebyetengeledde
simultaneous equations	≡	ebyenkano ebiseelankanyi
indeterminate equation(s)	≡	ebyenkano ebitakomelezekeka
factors	≡	emibazisaganyo

reducible	≡	F_{pro}•zzikika ku
irreducible	≡	te•F_{pro}•zzikika ku
expansion	≡	okuwanvuya
multinomial	≡	F•miimongiya
binomial	≡	F•miimobilya
trinomial	≡	F•miimosatwa
polynomial expression	≡	ekinyigabwelo ekimiimongiya
flow diagram	≡	ekikobayime kkulukusa
function machine		
= [flow diagram]	≡	ekikobayime kkulukusa
mapping	≡	okuteeba, enteeba
mapping diagram	≡	ekikobayime ky'ekiteebo
one-to-one correspondence	≡	okwanukulagana F_{pro}•mu-ku-F_{pro}•mu
domain	≡	ettwale
codomain	≡	ettwalegano
range	≡	olutuukilo, oluta
many-to-many correspondence	≡	okwanukulagana
one-to-many correspondence	≡	okwanukulagana F_{pro}•mu-ku-F_{pro}•ngi
function	≡	omukolo
inverse function	≡	omukolo omugalike
independent variable	≡	ekikyusi ekyetengelevu
dependent variable	≡	ekikyusi ekitetengelevu
explicit function	≡	omukolo omulambulukufu
implicit function	≡	omukolo omusilambulukufu
bounds	≡	amakomagano
upper bound	≡	ekkomagano elya waggulu
lower bound	≡	ekkomagano elya wansi

ANGLES (ENSONDA)

angle	≡	ensonda
full turn	≡	olunyoola olulamba
degree	≡	digri
minute	≡	eddakiika
second	≡	akatikitiki
right angle	≡	ensonda enneesimbu
straight angle	≡	ensonda enteleevu
acute angle	≡	ensonda ensongovu
obtuse angle	≡	ensonda enkugguye
oblique angle	≡	ensonda empunzike
reflex angle	≡	ensonda empetufu
complementary angles	≡	ensonda emmalaganyi
complement of an angle	≡	emmalagano y'ensonda
supplementary angles	≡	ensonda embwegezaganyi
supplement of an angle	≡	embwegezagano y'ensonda
conjugate angles	≡	ensonda enkoganyi
radian	≡	radiani
positive angle	≡	ensonda enjeeyi
negative angle	≡	ensonda enneddayi
angle of elevation	≡	ensonda y'okwambuka
angle of depression	≡	ensonda y'okukka

ARITHMETIC (ARITHMETIKA)

arithmetic	≡	arithimetika/ kannannamba
numbers	≡	ennamba
digit	≡	ennambaba
numeral = digit	≡	ennambaba
figure = digit/ number	≡	ennambaba/ ennamba

whole number	≡	ennamba ennambilila
consecutive numbers	≡	ennamba enzililaganyi
even numbers	≡	ennamba ensaasaabu
odd numbers	≡	ennamba ensuusuubu
parity (of a number)	≡	obwenkana (bw'ennamba)
square, to	≡	oku•biliguza (square, a ≡ embiliguzo)
square root	≡	omulandila gw'omubiliguzo
surd	≡	enzigavu
perfect square	≡	embiliguzo etuukilidde
cube, to	≡	oku•satuguza (cube, a ≡ ensatuguzo)
cube root	≡	omulandila gw'omusatuguzo
digit sum	≡	omugatte gw'ennambaba
digit root	≡	omulandila gw'ekinnambaba
casting out 9's	≡	okuggyamu emyenda
order of operations	≡	obutegeke gw'ebilimukuyo
addition	≡	okugatta
total	≡	omugatte
aggregate	≡	omugatte
sum	≡	omugatte
subtraction	≡	okutoolako
difference	≡	enjawulo
absolute difference	≡	enjawulo ggeleggele
decomposition	≡	okuzimbulula
equal addition	≡	okugatta okwenkanankana
counting on	≡	okubalakuwa
complementary addition	≡	okumalaganyi
multiplication	≡	okubaza
product	≡	omubazo

division	≡	okugabilamu
short division	≡	okugabilamu okumpi
long division	≡	okugabilamu okuwanvu
quotient	≡	omugabo
dividend	≡	eyokugabilwamu
divisor	≡	engabizi
remainder	≡	enfissi

CIRCLE (ENKULUNGO)

circle	≡	enkulungo
centre	≡	entabilo
radius	≡	olutabijabbilya, radiusi
diameter	≡	olutabija
semicircle	≡	enkulungobbilya
circumference	≡	olubugilizo
chord	≡	olutabi
secant	≡	olutabijja
arc	≡	oluweteca
sector	≡	sekta/ oluwayittabilo
segment	≡	oluwayi
major arc	≡	oluweteca olukulu (olubugilizocakkulu)
major sector	≡	sekta enkulu
major segment	≡	oluwayi olukulu
minor arc	≡	oluweteca oluto
minor sector	≡	sekta ento
minor segment	≡	oluwayi oluto
concentric circles	≡	enkulungo entabiloganyi
eccentric circles	≡	enkulungo entabilogunyi

annulus	≡	empeta

CONES, CYLINDERS AND SPHERES (ENSOGGO, SILINDA, ENKULUNGOJJA)

cone	≡	olusoggo
vertex	≡	obwanga
base	≡	omusingi
circular cone	≡	olusoggo olukulungosi
right circular cone	≡	olusoggo olukulungosi olwesimbu
oblique circular cone	≡	olusoggo olukulungosi oluwunzike
perpendicular height	≡	obugulumivu obwesimbu
slant height	≡	obugulumivu obuwunzike
curved surface of a cone	≡	olwenyi oluwete olw'olusoggo
frustum of a cone	≡	enkuggu y'olusoggo
cylinder	≡	silinda
ends of a cylinder	≡	enkomelelo za silinda
right circular cylinder	≡	silinda enkulungosi enneesimbu
curved surface of a cylinder	≡	olwenyi oluwete olwa silinda
sphere	≡	enkulungojja
hemisphere	≡	enkulungojjabbilya

CONIC SECTIONS (EBISALE EBISOGGOSI)

conic sections	≡	ebisale ebisoggosi
focus	≡	ekyoto
ellipse	≡	olugi
major axis	≡	olwebongelo olukulu
minor axis	≡	olwebongelo oluto
eccentricity	≡	obutabilogunyi
circle	≡	enkulungo

directrix	≡	oluyolekezi
parabola	≡	enkasukebiizi
hyperbola	≡	enkasukejja
rectangular hyperbola	≡	enkasukejja ssondassimba

COORDINATE SYSTEMS (EMIYUNGO GY'ENTABAGANYE)

coordinate systems	≡	emiyungo gy'entabaganye
Cartesian coordinates	≡	entabaganye ez'ekinnaCartesius
axes	≡	enneebongelo
ordered pair	≡	omubiliye omutegeke
origin	≡	ensibuko
ordinate	≡	entabaganye nnakabilye
abscissa	≡	entabaganye nnakasooka
rectangular coordinates		
(= Cartesian coordinates)	≡	entabaganye ensondasissimba
three-dimensional coordinates	≡	entabaganye zinnampimilossatwe
ordered triple	≡	omusatuye omutegeke
pole	≡	empagi
polar axis	≡	olwebongelo oluwagisi
polar coordinates	≡	entabaganye empagisi
radius vector	≡	vekta y'olutabijabbilya
world coordinate system	≡	omuyungo gw'entabaganyedduniya
grid references		
= Cartesian coordinate		
system	≡	entabaganye ez'ekinnaCartesius

CURVES (EMPETE)

plane curve	≡	oluwete oluseetwe
closed curve	≡	oluwete oluggale
simple closed curve	≡	oluwete oluggale olwangu
arc	≡	oluweteca
tangent	≡	olukwatako
locus	≡	oluwufu
spiral	≡	oluzingalalo
Archimedes' spiral	≡	oluzingalalo lw'Archimedes
hyperbolic spiral	≡	oluzingalalo lw'enkasukejja
helix	≡	olukovu
curve of pursuit	≡	oluwete lw'okuwondela
catenary	≡	oluwete lw'olujegele
ruled curve	≡	oluwete olusittaleye
envelope	≡	ebbaasa
asymptote	≡	olusangagunyi

CYCLOIDS (ENKULUNGOFAANYI)

cycloid	≡	olukulungofaanyi
cusp	≡	empami
parametric equations	≡	ebyenkano ebipimabiizi
epicycloid	≡	olukulungofaanyikunvu
hypocycloid	≡	olukulungofaanyiwansu
cardioid	≡	olutimafaanyi
nephroid	≡	olusigofaanyi
deltoid	≡	oludeltafaanyi
asteroid	≡	olunyeenyefaanyi

EPONYMS (AMANNYAKUNVU)

eponym	≡	elinnyakunvu
Abelian group	≡	ekikuukuulu ekinnaAbel
Archimedean solids	≡	ebinywevu by'ekinnaArchimedes
Archimedes' spiral	≡	oluzingalalo lw'Archimedes
Argand diagram	≡	ekikobayime kya Argand
Cartesian coordinates	≡	entabaganye ez'ekinnaCartesius
Cocker	≡	Cocker
Diophantine equations	≡	ebyenkano eby'ekinnaDiophantus
Erastosthenes' sieve	≡	akakunnghunta ka Erastosthenes
Euclidean geometry	≡	kapimansi w'ekinnaEuclid
Euler's formula	≡	enkukulilo ya Euler
Fermat's last theorem	≡	theorema nnakasemba ya Fermat
Fibonacci sequence	≡	omugobelelamo gwa Fibonacci
Goldbach's conjecture	≡	ekiteebelezo kya Goldbach
Hamiltonian walk	≡	olutambulo lw'ekinnaHamilton
Jordan curve	≡	oluwete lwa Jordan
Lucas sequence	≡	omugobelelamo gwa Lucas
Mersenne primes	≡	ensoosi za Mersenne
Möbius band *or* strip	≡	olulele lwa Möbius
Napier's rods *or* bones	≡	enga *oba* amagumba ga Napier
Pascal's triangle	≡	nnansondassatwe ya Pascal
Platonic solids	≡	ebinywevu eby'ekinnaPlaton
Pythagoras' theorem	≡	theorema ya Pythagoras
Ramanujan's formula	≡	enkukulilo ya Ramanujan
Simpson's rule	≡	ekizuuliso kya Simpson
Venn diagrams	≡	ebikobayime bya Venn

FACTORS, MULTIPLES, AND PRIMES (EMBAZISAGANYO, ENNYINGIWAMYE, N'ENSOOSI)

factor	≡	embazisaganyo
proper factors	≡	embazisaganyonyinyi
proper divisors = proper factors	≡	engabilamunyinyi
common factors	≡	embazisaganyogano
highest common factor (hcf)	≡	embazisaganyogano ennenejja
prime number	≡	ennamba ensoosi
prime factor	≡	embazisaganyo ensoosi
composite number	≡	ennamba enzimbame
multiple	≡	ennyingibazo
lowest common multiple (lcm)	≡	ennyingibazo entonojja
fundamental theorem of arithmetic	≡	theorema ensingisi ya arithmetika

FORMULAS FOR SHAPES (ENKUKULILO KU NDAYINIWUKO)

rectangle	≡	nnansondassimba
length	≡	obuwanvu
breadth/ width	≡	obugazi
perimeter	≡	olubugilizo
area	≡	ebbangaja
parallelogram	≡	enkobeddalabiiza
base	≡	omusingi
perpendicular height	≡	obugulumivu ssimba
trapezium	≡	nnammeeza
parallel edge	≡	olukugilo olulalabiiza
trapezoid	≡	nnammeezafaanyi
triangle	≡	nnansondassatwe
sine rule	≡	ekizuuliso kya sinusi
cosine rule	≡	ekizuuliso kya kosinusi

circle	≡	enkulungo
circumference	≡	olubugilizo
arc of a circle	≡	oluweteca lw'enkulungo
length of arc	≡	obuwanvu bw'oluweteca
sector of a circle	≡	sekta y'enkulungo
area of sector	≡	ebbangaja lya sekta
segment of a circle	≡	oluwayi lw'enkulungo
area of segment	≡	ebbangaja ly'oluwayi
chord of a circle	≡	olutabi lw'enkulungo
length of segment	≡	obuwanvu bw'oluwayi
length of chord	≡	obuwanvu bw'olutabi
ellipse	≡	olugi
cylinder	≡	silinda
volume of cylinder	≡	ebbangajja lya silinda
curved surface area	≡	ebbangaja ly'olwenyi oluwete
total surface area	≡	ebbangaja ly'olwenyi eggatte
cone	≡	olusoggo
slant height	≡	obugulumivu obuwunzike
base radius	≡	olutabijabbilya olw'omusingi
sphere	≡	enkulungojja
pyramid	≡	piramidi
frustum	≡	enkuggu

FRACTIONS (EMMENYEFU)

fraction	≡	emmenyefu
common fraction	≡	emmenyefugano
vulgar fraction		
= common fraction	≡	emmenyefu enkopi

numerator	≡	embazi
denominator	≡	entuumi
lowest common denominator	≡	entuumigano entonojja
proper fraction	≡	emmenyefunyinyi
improper fraction	≡	emmenyefunyunyi
mixed number	≡	ennamba entabike
decimal fraction	≡	emmenyefu enkumisi
decimal point	≡	akatonnyo akakumisi
recurring decimal	≡	enkumisi enzilanasi
terminating decimal	≡	enkumisi enkomi
periodic decimal	≡	enkumisi enkubobugosi
per cent (%)	≡	ekyekikumi
ratio	≡	emmenyefu embalaganosi
equivalent fractions	≡	emmenyefu empendoganyi
reduced fraction	≡	emmenyefu enzililize
algebraic fractions	≡	emmenyefu enjalgebrasi

GEOMETRY (GEOMETRIA/ KAPIMANNATTAKA)

geometry	≡	geometria; kapimannattaka
plane geometry	≡	geometria w'emuseetwe
Euclidean geometry	≡	geometria ow'ekiEuclid
point	≡	(i) akatonnyo, entonnyo
		(ii) ttonnya
line	≡	layini; olukobo
straight line	≡	layini enteleevu; oluteleevu
linear	≡	F•layinisi
line segment	≡	oluwayi lwa layini
surface	≡	olwenyi

plane	≡	oluseetwe
parallel	≡	F•lalabiizi
perpendicular	≡	F•sondassimba
orthogonal = perpendicular	≡	F•sondassimba
collinear	≡	F•layiniganyi
(vertically) opposite angles	≡	ensonda enkontanyi
adjacent angles	≡	ensonda endilaanyi
transversal	≡	oluteleevusaabi
alternate angles	≡	ensonda entobeke
corresponding angles	≡	ensonda ennyanukulaganyi
similar	≡	F•faanaganyi
congruent	≡	F•enkanyinkanyi
vertical	≡	F•esimbu
horizontal	≡	F•eganzifu
angle properties of circles	≡	ebyannyini nnansonda by'enkulungo
subtended angle	≡	ensonda ensojjeko
angle in a segment	≡	ensonda mu luwayi
angle at the centre	≡	ensonda ku ntabilo
tangent	≡	olukwatakuwo
common tangent	≡	olukwatakuwogano
direct common tangent	≡	olukwatakuwogano oluteleevu
transverse common tangent	≡	olukwatakuwoganosaabi
secant	≡	olutabijja
intersecting chords	≡	entabi ensalaganyi

GRAPHS (ENKOBO)

graphs	≡	olukobo

quadrants	≡	ebinyabuzo
linear graph	≡	olukobo olulayinisi
intercept	≡	akasalakato
gradient	≡	omwesulikilo
negative gradient	≡	omwesuliko omuneddayi
trend line = line of best fit	≡	layini y'obwegwanyizijja
interpolation	≡	okuzuulakata
extrapolation	≡	okuzuulayila
quadratic graph	≡	olukobo olubiliguze
roots of a quadratic	≡	emilandila gy'olubiliguze
cubic	≡	F•satuguze
inverse square	≡	F•biliguze F•galike
exponential	≡	F•guzosi
inequalities	≡	emyenkuno

INFORMATION TECHNOLOGY (TEKNOLOGIA/ KANNABUKODYO W'EBYAMAWULILE)

information technology	≡	kannabukodyo/ teknologia w'ebyamawulile
computer	≡	kompyuta/ embaziso
program	≡	prograamu
computer program	≡	prograamu ya kompyuta
programming language	≡	olulimi lw'okuprograama
digit	≡	ennambaba
binary digit	≡	ennambaba embiliye
bit	≡	babi
byte	≡	bbabi
data	≡	data/ ebyewe
database	≡	omwewemawilo
field	≡	ekisaawe

record	≡	omusaawema
spreadsheet	≡	ennyanjalo
calculator	≡	akabaziso
scientific calculator	≡	akabaziso k’ekinnakumanya
programmable calculator	≡	akabaziso akaprograamikika
graphics calculator	≡	akabaziso k’ebyenkobo

KINEMATICS (KINEMATIKA/ KANNAKUJJULULWA)

kinematics	≡	kannakujjululwa
speed	≡	embiloppima
average speed	≡	embiloppima ez’ekitema
velocity	≡	embilojjoka
acceleration	≡	omwanguyilo
deceleration	≡	omwanguyilo omuneddayi
retardation	≡	omwanguyilo omuneddayi
constant	≡	F•kyafu
uniform	≡	F• kyafu
displacement	≡	obweseetulojjoka
distance-time graph	≡	olukobo lw’obweseetuloppima-kiseela
velocity-time graph	≡	olukobo lw’embilojjoka-kiseela
compound measures	≡	empimo engatte
equations of uniform motion	≡	ebyenkano by’okwejjulula ebikyafu

KINETICS (KINETIKA/ KANNAKUJJULULA)

force	≡	ekikasi
velocity	≡	embilo
acceleration	≡	omwanguyilo
relative velocity	≡	embilo ennghandanyi

kinematics	≡	kannakujjululwa
kinetics	≡	kannakujjulula
particle	≡	akasilikitu
mass	≡	omutole
energy	≡	amaanyi
work	≡	omulimu
power	≡	obuyinza
Newton's laws of motion	≡	amateeka ga Newton ag'okwejjulula
dynamics	≡	kannakwejjulula
parallel forces	≡	ebikasi ebilalabiizi
weight	≡	obuzito
moment of a force	≡	olunyoolo lw'ekikasi
couple	≡	omugogokkasi
friction	≡	obukuubaganyi
statics	≡	kannakuzitonkana
equilibrium	≡	okuzitonkana
rigid solid	≡	ekinywevu ekigumu
conservation	≡	okukuumilila
impulse	≡	akapakuko
momentum	≡	envuumuulo
composition of a force	≡	okuzimbawama kw'ekikasi
resolution of a force	≡	okuzimbawuma kw'ekikasi
centre of gravity	≡	entabilo y'omuzito
coplanar forces	≡	ebikasi ebiseetweganyi
displacement	≡	okweseetula
vector	≡	vekta/ emwolesi
scalar	≡	omupimi
projectile	≡	ekibuusalalo

centre of mass	≡	entabilo y’omutole
normal reaction	≡	ekikolakasi ekilijjosi
coefficient of friction	≡	ekituukilizaganyi ky’obukuubaganyi
tension	≡	obuleevu
Hooke’s law	≡	etteeka lya Hooke
motion in a circle	≡	okwejjulula mu nkulungo
impact of elastic bodies	≡	omutomelakuwo gw’emibili eminaanuufu
calculus	≡	kannambala
differential calculus	≡	kannambala omwawuzi
integral calculus	≡	kannambala omulambiliza
differentiate	≡	oku(y)awula
difference	≡	enjawulo
differential	≡	F•(y)awulosi
differential coefficient	≡	ekituukilizaganyi ekyawulosi
derivative of a function	≡	ekiwakulo ekyawulosi
integer	≡	ennambilila
integral	≡	F•lambiliza
integrate	≡	okulambiliza

LOGIC (LOGIKA/ KANNANSONGA)

logic	≡	kannansonga
statement	≡	ekitegeezo
argument	≡	empakano
true	≡	F_{pro}•zima
false	≡	F_{pro}•zuma
undecidable	≡	F•tasalikikawo
assumption	≡	ekitwale
premise	≡	ekitume

self-evident	≡	F•ejulila
intuitive	≡	F•tasongayibwa
axiom	≡	ekisabo
proposition	≡	ekyokukakasibwa
valid	≡	F•tuufu
invalid	≡	F•situufu
counter-example	≡	ekyokulabilako ekikontanyi
proof	≡	(i) ekikakaso
		(ii) enkakasa/ okukakasa
direct proof	≡	enkakasa nnatteleela
indirect proof	≡	enkakasa nnakkoolooba
proof by contradiction	≡	enkakasa nnakkoolooba
reductio ad absurdum	≡	enkakasa nnakkoolooba
proof by exhaustion	≡	enkakasa nnaggweelela
proof by induction	≡	enkakasa nnassendassenda
visual proof	≡	enkakasa nnakkoba
"look-see" proof = visual proof	≡	enkakasa nnakkoba
conjecture	≡	ekiteebelezo
hypothesis	≡	ekiteekowansa
theorem	≡	ekikakase/ theorema
lemma	≡	lemma/ ekikakasewansa
corollary	≡	empelekeze
converse	≡	ekifuulannenge
contrapositive	≡	ekiyeeyigaanyi
necessary condition	≡	embeela eyeetaagisa
sufficient condition	≡	embeela emmala
necessary and sufficient condition	≡	embeela eyeetaagisa ela emmala
paradox	≡	ekikkilizobiizi

fallacy	≡	ennimbo
symbols	≡	ebisikiziso

MATRICES (EMIMAAMA)

array	≡	omupango
element	≡	elementi/ ekinnamupango
matrix	≡	omupangossimba/ omumaama
row	≡	olunyilili
column	≡	omuko
order	≡	obusengeke
square matrix	≡	omumaama ogw'embiliguzo
row matrix	≡	omumaama ogw'olunyilili
column matrix	≡	omumaama ogw'omuko
diagonals	≡	enkiikansonda
leading/ main/ principal diagonal	≡	olukiikansonda olukulembela
secondary/ trailing diagonal	≡	olukiikansonda olukwebela
trace	≡	omuwufu
transpose	≡	okuwaanyisaganya
addition	≡	okugatta
solution matrix	≡	omumaama gw'ekimelengulo
scalar multiplication	≡	okubazisa omupimi
multiplication	≡	okubazisa
diagonal matrix	≡	omumaama gw'olukiisansonda
identity matrix	≡	omumaama gw'ekyanonkano
determinant	≡	ekizuula
singular matrix	≡	omumaama omumuwamye
inverse matrix	≡	omumaama omugalike

NAVIGATION (OKUBUNGA)

direction (of a line)	≡	obwolekelo (bw'olulayini)
points of the compass	≡	obutonnyo bw'eddiila
compass angles	≡	ensonda za ddiila
bearing	≡	obwesangilojjoka
reciprocal bearing	≡	obwesangilojjoka obwa kaddannyuma
back bearing	≡	obwesangilojjoka obwa kaddannyuma
pole	≡	empagi
axis of rotation	≡	olwebongelo lw'okwetooloola
great circle	≡	enkulungo enkulu
small circle	≡	enkulungo ento
equator	≡	enkulungoggazijja/ ikweta
(line of) latitude	≡	olulayini lw'enkulungoggazi
meridian	≡	olutuntu
Greenwich Meridian	≡	Olutuntu lwa Greenwich
(line of) longitude	≡	olulayini lw'enkulungoggwanvu

NUMBERS (ENNAMBA)

perfect numbers	≡	ennamba ezituukilidde
deficient numbers	≡	ennamba empungufu
abundant numbers	≡	ennamba emboozi
amicable pair	≡	embiliwamyo ey'omukwano
automorphic numbers	≡	ennamba ez'ekikulanyinyi
palindrome	≡	F•ddukabega
pandigital	≡	F_{pro}•nnambabayanna
Harshad numbers	≡	ennamba za Harshad
Kaprekar's constant	≡	etakyuka ya Kaprekar

cycles	≡	emyetooloolo
partition	≡	okutunduya
persistence	≡	okulemelako
polite numbers	≡	ennamba z’obuntubulamu
happy numbers	≡	ennamba ensanyufu
sad numbers	≡	ennamba ennakuwavu
cutting numbers	≡	ennamba ensazi
repunits	≡	eminweddinnghana
multigrade	≡	F•nnabigulobingye
digital invariants	≡	F•nnabitakyukannambaba
superscript	≡	akakobowagga
subscript	≡	akakobowansa
index notation	≡	endagiso
base	≡	omusingi
positive index	≡	endagiso enjeeyi
zero index	≡	endagiso zzeelo
negative index	≡	endagiso enneddayi
power	≡	obuyinza
exponent	≡	obuyinza
standard form	≡	ekikula ekigelelosi
scientific notation	≡	endagisa y’ekinnakumanya
reciprocal	≡	omulakaka
factorial	≡	ttiiliika; “6!” read as “mukaaga ttiiliika”
permutation	≡	omuntutego
combination	≡	omusintutego
number system	≡	omuyungo gw’ennamba
Hindu-Arabic number system	≡	omuyungo gw’ennamba z’ekiHindu-kiWarabu
place-value	≡	omuwendo gw’ekifo

base	≡	omusingi
binary	≡	F•biliye
ternary	≡	F•satuye
octal	≡	F•naanaye
decimal	≡	F•kumiye
denary = decimal	≡	F•kumiye
hexadecimal	≡	F•kuminomukaagaye
place-value headings	≡	emitwe gy'emiwendo gy'ebifo
place-value names	≡	amaanya g'emiwendo
place-holder	≡	enkwatakifo
zero	≡	zzeelo
additive number systems	≡	emiyungo gy'ennamba emigassi
Egyptian number system	≡	omuyungo gw'ennamba omuMisiri
early Roman number system	≡	omuyungo gw'ennamba omuRooma ogwasooka
later Roman number system	≡	omuyungo gw'ennamba omuRooma ogw'oluvannyuma
Greek number system	≡	emiyungo gy'ennamba emiGiriki
Babylonian number system	≡	emiyungo gy'ennamba omuBabilooni
natural numbers	≡	ennamba entondesi
counting numbers = natural numbers	≡	ennamba ez'okubazisa
integers	≡	ennambilila
whole numbers	≡	ennambilila
positive integers	≡	ennambilila enjeeyi
signed numbers	≡	ennamba emboneze
directed numbers	≡	ennamba enjoleke
rational numbers	≡	ennamba ensonganyi
irrational numbers	≡	ennamba ensongunyi
real numbers	≡	ennamba wawu

positive numbers	≡	ennamba enjeeyi
negative numbers	≡	ennamba enneddayi
number line	≡	olulayini lw'ennamba
cardinal numbers	≡	ennamba empatasi
ordinal numbers	≡	ennamba entegekesi
identification numbers	≡	ennamba ez'okulinnyaliza
imaginary numbers	≡	ennamba enneefumiitilize
complex numbers	≡	ennamba enkaali
Argand diagram	≡	olukobeyime lw'Argand

POLYGON NUMBERS (ENNAMBA ZA NNANSONDANNYINGYE)

polygon numbers	≡	ennamba za nnansondannyingye
figurate numbers	≡	ennamba za nnansondannyingye
triangle numbers	≡	ennamba za nnansondassatwe
square numbers	≡	ennamba z'embiliguzo
centred-polygon numbers	≡	ennamba za nnansondannyingye entabile
hexagon numbers	≡	ennamba za nnansondamukaaga
centred-triangle numbers	≡	ennamba za nnansondassatwe
centred-square numbers	≡	ennamba z'embiliguzo entabile
centred-hexagon numbers	≡	ennamba za nnansondamukaaga entabile

POLYGONS (NNANSONDANNYINGYE)

polygon	≡	nnansondannyingye; nnankugilonnyingye
vertex	≡	obwanga
interior vertex angle	≡	ensonda y'obwanga ey'omunda
exterior vertex angle	≡	ensonda y'obwanga ey'ebwelu
angle sum	≡	omugatte gw'ensonda
equilateral	≡	F•kugilonkanyi

equiangular	≡	F•sondankanyi
isogon = equiangular polygon	≡	nnansondannyingye ensondankanyi
regular polygon	≡	nnansondannyingye enteekandanyi
irregular polygon	≡	nnansondannyingye enteekandunyi
concave polygon	≡	nnansondannyingye empukuganyi
convex polygon	≡	nnansondannyingye enkulungoganyi
circumcircle	≡	enkulungobuga
incircle	≡	enkulungomila
triangle	≡	nnansondassatwe
quadrilateral	≡	nnanjuyinnyinye
pentagon	≡	nnansondattaanwe
hexagon	≡	nnansondamukaaga
heptagon	≡	nnansondamusanvu
octagon	≡	nnansondamunaana
nonagon	≡	nnansondamwenda
decagon	≡	nnansondakkumi

POLYHEDRONS (NNANNYENYINNYINGYE)

polyhedron	≡	nnannyenyinnyingye
edge	≡	olukugilo
vertex	≡	obwanga
net of a polyhedron	≡	olutimba lwa nnannyenyinnyingye
convex	≡	F•kulungoganyi
non-convex	≡	F•kulungoganyilesi
regular	≡	F•teekandanyi
Platonic solids	≡	ebinywevu eby’ekiPlaton
semi-regular	≡	F•teekandanyibbilya
Archimedean solids	≡	ebinywevu eby’ekiArchimedes

deltahedron	≡	nnannyenyiddelta
hexahedron	≡	nnannyenyimukaaga
cube	≡	ensatuguzo
cuboid	≡	ensatuguzofaanyi
circum-sphere	≡	enkulungojjabuga
in-sphere	≡	enkulungojjamila
tetrahedron	≡	nnannyenyinnyinye
regular convex polyhedrons	≡	nnannyenyinnyingye enkulungoganyi enteekandanyi
octahedron	≡	nnannyenyimunaana
dodecahedron	≡	nnannyenyikkuminabbili
icosahedron	≡	nnannyenyikkuminaabili
semi-regular polyhedrons	≡	nnannyenyinnyingye enteekandanyibbilya
truncated tetrahedron	≡	nnannyenyinnyinye enkeculeko
cuboctahedron	≡	nnannyenyimunaanassatuguzo
truncated cube	≡	ensatuguzo enkeculeko

PROBABILITY (OBUTUUKIFU)

event	≡	ekituuko
outcome	≡	ekibwelo
frequency	≡	omutelo
possibility	≡	obusobofu
probability	≡	obutuukifu
probability scale	≡	olupimilo lw’obutuukifu
equally likely	≡	F_{+pro}•andi•R•a kyenkanyi
theoretical probability	≡	obutuukifu obw’ekitheoria
experimental probability	≡	obutuukifu obw’okugezesa
relative frequency	≡	omutelo omugandanyi
fair	≡	F•syekubiizi

biased	≡	F•eekubiizi
chance	≡	omukisa
mutually exclusive events/ outcomes	≡	ebituuko/ ebibwelo ebiboolaganyi
independent events/ outcomes	≡	ebituuko/ ebibwelo ebyetengeledde
dependent events/ outcomes	≡	ebituuko/ ebibwelo ebyesigami
combined events/ outcomes	≡	ebituuko/ ebibwelo ebibiliganye
compound events/ outcomes	≡	ebituuko/ ebibwelo ebiteekaganye
conditional probability	≡	obutuukifu obukwakkulizosi
tree diagrams	≡	enkobeyime z'emiti
odds	≡	ensuusuuba
evens	≡	ensaasaaba

PYRAMIDS AND PRISMS (PYIRAMIDI NE PRISMA)

pyramid	≡	piramidi
base	≡	omusingi
apex	≡	entikko
perpendicular height	≡	obugulumivu ssimba
altitude	≡	obugulumivu ssimba
vertex	≡	obwanga
right pyramid	≡	piramidi ssimba
right square-based pyramid	≡	piramidi ensingiwambiliguzo ssimba
oblique pyramid	≡	piramidi empunzike
slant height	≡	obugulumivu obuwunzike
slant edge	≡	olukugilo oluwunzike
frustum of a pyramid	≡	enkuggu ya piramidi
cross-section	≡	olulyebulokkiika

prism	≡	prisma
triangular prism	≡	prisma eya nnansondassatwe
hexagonal prism	≡	prisma eya nnansondamukaaga
right prism	≡	prisma ssimba
antiprism	≡	prismagaanyi
square antiprism	≡	prismagaanyi embiliguze

QUADRILATERALS (NNANJUYINNYINYE)

quadrilateral	≡	nnanjuyinnyinye,
trapezium	≡	trapeziumu**,** nnammeeza
trapezoid	≡	nnammeezafaanyi
isosceles trapezium	≡	trapeziumu engulunkanyi
parallelogram	≡	enkobalalabiizo
rhombus	≡	rhombusi
rectangle	≡	nnansondassimba
oblong	≡	F•wanvuyilivu
square	≡	embiliguzo
kite	≡	kamunye
arrowhead	≡	mutwekasaale
irregular quadrilateral	≡	nnanjuyinnyinye enteekandunyi
cyclic quadrilateral	≡	nnanjuyinnyinye mu nkulungo

RECREATIONAL MATHEMATICS (MATHEMATIKA W'OKWEWUMMUZAAMU)

recreational mathematics	≡	mathematika ow'okwewummuzaamu
dissections	≡	embaago
tangram	≡	tangraamu
polyominoes	≡	polyomino
pentominoes	≡	pentomino

polyiamonds	≡	polyamondi
hexiamonds	≡	hexyamondi
polycubes	≡	nnannyenyimukaagannyingye
Soma cubes	≡	nnannyenyimukaaga za Soma
alphametics	≡	metikaalfa
asterithms	≡	asterithmu
magic square	≡	embiliguzo ey'eggwano
Latin square	≡	embiliguzo y'ekiLattini
Graeco-Latin square	≡	embiliguzo y'ekiGiriiki-Lattini

SEQUENCES AND SERIES (EMIGOBELELO N'ENNYILILI)

sequence	≡	omugobelelo
term	≡	ekimiimo
random sequence	≡	omugobelelomaga
natural numbers	≡	ennamba entondesi
doubling sequence	≡	omugobelelo omubiliye
lucky number sequence	≡	omugobelelo gw'ennamba ez'omukisa
recursive sequence	≡	omugobelelo omuddanasi
Fibonacci sequence	≡	omugobelelo gwa Fibonacci
Lucas sequence	≡	omugobelelo gwa Lucas
arithmetic progression	≡	omugendalalo ogw'ekyarithmetika
geometric progression	≡	omugendalalo ogw'ekigeometria
series	≡	olunyilili
arithmetic series	≡	olunyilili olw'ekyarithmetika
geometric series	≡	olunyilili olw'ekigeometria
convergent series	≡	olunyilili olusembelezi
divergent series	≡	olunyilili olwesambi
alternating series	≡	olunyilili olutobesi

infinite series ≡ olunyilili olusikomi

trigonometric functions ≡ emikolo egy'ekitrigonometria

SETS (EBIBINJA)

set ≡ ekibinja

universal set ≡ ekibinjayanna

universe = universal set ≡ ekibinjayanna

member (of a set) ≡ ekinnakibinja; mmemba

element (of a set) ≡ ekinnakibinja; elementi; mmemba

empty set ≡ ekibinja ekyeleele

null set ≡ ekibinja ekyeleele

subset ≡ ekibinjawansa

proper subset ≡ ekibinjawansanyinyi

complement (of a set) ≡ ekimalo (ky'ekibinja)

union (of sets) ≡ ekibinjawama

intersection (of sets) ≡ ekibinjakata

disjoint sets ≡ ebibinjawuma

superset ≡ ekibinjawagga

symmetric difference

(of two sets) ≡ enjawulo empimaganyi

Venn diagrams ≡ enkobayime za Venn

finite set ≡ ekibinja ekikomi

infinite set ≡ ekibinja ekisikomi

(to) enumerate (a set) ≡ okulambabwela (ekibinja)

denumerable ≡ (ekibinja) ekilambabweleka

SPACE AND SHAPES (EBBANGA N'ENDAYINIWUKO)

two-dimensional space ≡ ebbanga linnampimilobbilye

three-dimensional space	≡	ebbanga linnampimilossatwe
shape	≡	olulayiniwuko
solid	≡	ekinywevu
edge	≡	olukugilo
face	≡	olwenyi
side	≡	oluuyi
vertex	≡	obwanga
diagonal	≡	olukiisansonda
face diagonal	≡	olukiisansonda lw'olwenyi
space diagonal	≡	olukiisansonda lw'omu bbanga
perimeter	≡	olubugilizo
circumference	≡	olubugilizo
rectilinear shape	≡	olulayiniwuko olulayinitteleevu
parallelepiped	≡	ebbangajjaddalabiizi
rhombohedron	≡	nnannyenyiddhombusi
dimension	≡	olupimilo
length	≡	obuwanvu
breadth	≡	obugazi
width	≡	obugazi
height	≡	obugulumivu
depth	≡	obussi
thickness	≡	obugazi
area	≡	ebbangaja
volume	≡	ebbangajja
tessellation	≡	omulayiniwukotego
tiling	≡	omulayiniwukotegoja
rep-tile	≡	tailo•damo

STATISTICS (STATISTIKA/ KANNABYEWO)

statistics	≡	kannabyewo
data	≡	ebyewo
raw data	≡	ebyewo ebikungule
grouped data	≡	ebyewo ebikuukuule
class	≡	ekibiina
class limits	≡	amakomo g'ekibiina
class interval	≡	obugazi bw'ekibiina
discrete data	≡	ebyewo ebyesumaalisi
continuous data	≡	ebyewo ebikwajjalazi
frequency	≡	omutelo
population	≡	omuntuwamo
distribution	≡	omugabanyo
normal distribution	≡	omugabanyo omulijjosi
skewed distribution	≡	omugabanyo omubege
positively skewed	≡	F•bege kiyeeyi
negatively skewed	≡	F•bege kineddayi
dispersion	≡	obusaasaanye
spread	≡	obusaasaanye
modal class	≡	ekibiina ekinnamutelojja
bimodal distribution	≡	omugabanyo omunnamiteleebilye
two-way table	≡	omweso omunnamakubaabilye
frequency diagram	≡	olukobayime lw'omutelo
bar chart	≡	ekipande ky'emitayimbwa
block graph	≡	olukobo lwa blooka
histogram	≡	histograamu
pictogram	≡	piktograamu
stem and leaf plot	≡	ploti y'enduli-ndagala

pie chart	≡	ekipande kya sekta
scattergram	≡	olukobo lw'obusaasaanye
correlation	≡	okugandanagana, okugandawama
positive correlation	≡	okugandanagana okuyeeyi
negative correlation	≡	okugandanagana okuneddayi
line of best fit	≡	layini y'obwegwanyizijja
cumulative frequency	≡	omutelo omwetuumi
cumulative frequency curve	≡	oluwete lw'omutelo omwetuumi
cumulative frequency polygon	≡	nnansondannyingye y'omutelo omwetuumi
range	≡	oluta, olutuukilo
measures of central tendency	≡	ebipimo by'okuluubilila entabilo
arithmetic mean	≡	ekitema ky'ekyarithmetika
mean	≡	ekitema
average	≡	ekitema
weighted mean	≡	ekitema ekizitoye
working mean	≡	ekitema ekikola
median	≡	ekikatisi
mode	≡	ekiyenjeezi
percentile	≡	ekyekikumikuma
lower quartile	≡	ekyokunakuma ekya wansi
upper quartile	≡	ekyokunakuma ekya waggulu
interquartile	≡	oluta olwokunakumawakata
semi-quartile range	≡	ekyokubili ky'oluta olwokunakumawakata
deviation	≡	enneeyawulo
mean deviation	≡	enneeyawulo ey'ekitema
standard deviation	≡	enneeyawulo ey'olugelelo
variance	≡	okweyubula
box and whisker diagram	≡	olukobekiika lwa bbookisi n'obuswilili

moving average	≡	ekitema ekyeseetula
Spearman's rank order correlation coefficient	≡	ekituukilizagano kya Spearman
sample	≡	sampulo
random	≡	F_{pro}•a kumagamaga
random selection	≡	okulonda kw'okumagamaga
random sample	≡	sampulo y'okumagamaga
systematic sampling	≡	okusampula kw'okumugamuga
stratified sampling	≡	okusampula okwaliile
quota sampling	≡	okusampula okukuukuule
sampling error	≡	ensobi mu kusampula

STRUCTURES (EMIZIMBE)

structure	≡	omuzimbe
operation	≡	ekilimukuyo
operator	≡	ekilimukuyiso
set	≡	ekibinja
binary operation	≡	ekilimukuyo ekibilisi
unary operation	≡	ekilimukuyo ekimusi
closed	≡	F•ggale
commutative	≡	F•fuukaganyi
associative	≡	F•nywilazi
identity	≡	ekyenkanonkano
left/ right identity	≡	ekyenkanonkano ku kkono/ ddyo
inverse	≡	F•galike
group	≡	ekikuukuulu
commutative group	≡	ekikuukuulu ekikyusaganyi
Abelian group		

= commutative group ≡ ekikuukuulu ekyekinnaAbel

distributive law ≡ etteeka eggabanyi

modulus ≡ engabiziyanna, modulusi

modulo ≡ modulo

residue ≡ ekikamulo

congruent ≡ F•kkiliziganyi

modular arithmetic ≡ arithmetika ow'engabiziyanna

SYMBOLS (OBUBONELOBBASI)

Akabonelo	**Obwesangilo bw'Akabonelo**	**Ensoma y'Obwesangilo bw'Akabonelo**
+ akabonelo k'okuggatako	(i) a + b (ii) + b	(i) a gattako b (ii) b enjeeyi
- akabonelo k'okutoolako	(i) a – b (ii) – b	(i) a toolako b (ii) b enneddayi
,		komma
.		pointi
×, • akabonelo k'okubaza	a × b, a•b	a emilundi b *oba* a nga ebazibbwamu emilundi b
÷, / akabonelo k'okugabilamu	a ÷ b, a/b	a nga egabiddwamu b
± akabonelo k'okugattako oba okutoolako	(i) a ± b (ii) ± b	(i) a gattako *oba* toolako b (ii) b enjeeyi *oba* enneddayi
x^n akabonelo k'oku•S_z•guza	(i) x^2 (ii) x^3	(i) x embilibuze *oba* embiliguzo ya x (ii) x ensatuguze *oba* ensatuguzo ya x
$\sqrt[n]{\times}$ akabonelo k'oku•S_z•gaza	(i) $\sqrt[2]{\times}$ *oba* $\sqrt{\times}$ (ii) $\sqrt[3]{\times}$	(i) embiligazo ya x (ii) ensatugazo ya x
| | akabonelo k'omuwendo ggeleggele	|×|	omuwendo ggeleggele ogwa x
[ ]	[x]	ennambilila ennenejja etasinga x
= akabonelo k'ekyenkano	a = b	a yenkana b
≡ akabonelo k'ekyenkanonkano	a ≡ b	a yenkanankana b; a ewendonkana b
≠ akabonelo k'ekyenkuno	(i) a ≠ b (ii) a < b (iii) a ≤ b (iv) a > b (v) a ≥ b (vi) a << b (vii) a >> b	(i) a teyenkana b (ii) a ntono okusinga b (iii) a ntono okusinga oba yenkana b (iv) a nnene okusinga b (v) a nnene okusinga oba yenkana b (vi) a ntono nnyo okusinga b

		(vii) a nnene nnyo okusinga b
≈ akabonelo k'obwenkanakumpi	a ≈ b	a kumpi yenkana b
∝	a ∝ b	a ekyuka nga b oba a egendana ne b
!	(i) n! (ii) y = n!	(i) n ttiliika (ii) y yenkana omutiliiko gwa x
%		F_{pro}•**nnakikumi**
‰		F_{pro}•**nnalukumi**
∠	∠ABC *oba* ∠B	ensonda B
∥	AB ∥ PQ	AB lulalabiiza PQ
⊥	AB ⊥ PQ	AB lwesimbye ku PQ
∟		ensonda enneesimbu
°	x°	digri x
′	x′	eddakiika x
″	x″	aka/ obutikitiki
¬	¬P	si P
∧	P ∧ Q	P ne Q
∨	P ∨ Q	P oba Q
→	P → Q	singa P, olwo Q *oba* P kizingilwa mu Q
←		F_{pro}•**zinga**
↔	P ↔ Q	P singa ela kyokka singa Q
∃	∃xA(x)	Waliwo x nga A(x)
∀	∀xA(X)	Ku lwa buli x kili nti A(x)
∴	∴P	noolwekyo P
∵	∵P	kubanga *oba* olw'okubanga
⊦ akabonelo k'okukalaatila	$\{A_1, \ldots, A_n\}$⊦ C	okuva mu $\{A_1, \ldots, A_n\}$, C kikalaatilikika/ kiwakulikika
□	□P	kiteekwa nti P
◊	◊P	kisoboka nti P
{ }		ekibinja { }
∈	x ∈ {w, x, y, z}	x kinnakibinja kya {w, x, y, z}
∉	x ∉ {u, w, y, z}	x kinnakibinja kya {u, w, y, z}
⊂	A ⊂ C	A kibinjawansa kya C
⊃	C ⊃ A	C kibinjawagga kya A
∪	C = A ∪ B	C kyenkana ekimuyo kya A ne B
∩	C = A ∩ B	C kyenkana ekibinjakata kya A ne B
\	C = A \ B	C kyenkana enjawukano ya A okuva ku B
Ø		ekibinja ekyeleele
^{c}	A^c	ekimalo ky'ekibinja A
ℕ		(ekibinja (e)ky'ennamba) entondewu
ℤ		(ekibinja (e)ky'ennamba) ennambilila
ℚ		(ekibinja (e)ky'ennamba) ensongandanyi
ℝ		(ekibinja (e)ky'ennamba) wawu
ℂ		(ekibinja (e)ky'ennamba) enkaali
n(A)		Ennamba y'ebinnakibinja mu kibinja A

$\sin^{-1} y$, arcsin y		sinusiggalika ya y
$\cos^{-1} y$, arccos y		kosinusiggalika ya y
$\tan^{-1} y$, arctan y		tangentiggalika ya y
$\sec^{-1} y$, arcsec y		sekantiggalika ya y
$\text{cosec}^{-1} y$, arccosec y		kosekantiggalika ya y
$\cot^{-1} y$, arccot y		kotangentiggalika ya y
f(x)		ekikonsiwuko kya x wansi w'omukolo f
f^{-1}		olugandaggalika olw'omukolo f
AB		vekta AB
|**AB**|		AB ggeleggele
A•B		vekta A ttonnya vekta B
A × **B**		vekta A ssaalaba bekta B
$\frac{dy}{dx}$, f′(x)		ekiwakulo/ ekiyawulizo kya y (f(x)) nga kifa ku x *oba* d−y nga kifa ku d−x
$\int_a^b f(x)dx$		olulambilizo lwa (f(x) nga lufa ku x okuva ku a okutuuka ku b
$\frac{d^2y}{dx^2}$		d−2−y nga kifa ku d−x embiliguze
nCr		ennamba y'emituwamo gya n nga ebikonsi r bye bilondebwa
nPr		ennamba y'emitusenzo gya n nga ebikonsi r bye bilondebwa
$\begin{bmatrix} n \\ r \end{bmatrix}$		n londa r *oba* n waggulu wa r
P( )	P (A)	obutuukifu bw'ekituuko A
P(|)	P(A|B)	obutuukifu bw'ekituuko A nga bwesigamye ku kituuko B
A′		ekimalo ky'ekituuko
σ		obukubokwafu nnalugelelo
∞		entakoma
( )		obukomela obukulungilivu
$\prod_{r=1}^{n} a_r$		omubazisilizo gwa a_r nga r eva ku 1 okutuuka ku n r
$\sum_{r=1}^{n} a_r$		omugattilizo gwa a_r nga r eva ku 1 okutuuka ku n
< >		obukomela nnansonda
&		ennamba enkumikaaga egobelela
e ≈ 2.71828		ennamba ya Euler
π (pi ≈ 3.14159)		pi ≈ 3.14159

SYMMETRY (OBUPIMAGANYI)

symmetry ≡ obupimaganyi

symmetry of shape	≡	obupimaganyi bw'ekilayiniwuko
line symmetry	≡	obupimaganyi bw'oku lulayini
rotational symmetry	≡	obupimaganyi bw'okwetooloola
centre of symmetry	≡	entabilo y'obupimaganyi
point symmetry		
= rotational symmetry	≡	obupimaganyi bw'okwetooloola
order of rotational symmetry	≡	obusengeke bw'obupimaganyi bw'okwetooloola
plane symmetry	≡	obupimaganyi bw'oluseetwe
bilateral symmetry	≡	obupimaganyi bunnanjuyibbilye
mirror symmetry	≡	obupimaganyi bw'omu ndabilwamu
reflective symmetry	≡	obupimaganyi obuwetakasi
asymmetric	≡	F•pimagunyi
axis of symmetry	≡	olwebongelo lw'obupimaganyi
axis of rotation	≡	olwebongelo lw'okwetooloola
symmetric expression	≡	ekinyigabwelo ekipimaganyi
symmetric function	≡	omukolo omupimaganyi
symmetric relation	≡	olugandanyi olupimaganyi

TECHNIQUES (OBUKODYO)

algorithm	≡	ekizuulisanyilo
unitary method	≡	olutambulanyilo lw'eminwe
rule of three	≡	ekizuuliso eky'ebisatu
laws of indices	≡	amateeka g'endagiso
iteration	≡	ekiddilanyilo
cross-multiplication	≡	okubazakiika
area under a curve	≡	ebbangaja wansi w'oluwete
mid-ordinate rule	≡	ekizuuliso ky'entabaganya nnakabilye
trapezium rule	≡	ekizuuliso kya nnammeeza

trapezoidal rule	≡	ekizuuliso kya nnammeezafaanyi
Simpson's rule	≡	ekizuuliso kya Simpson
linear programming	≡	okuprograaama kw'ekilayini
solving quadratics	≡	okumelengula ebibiliguzo
difference of two squares	≡	enjawulo y'ebibiliwamyo ebibili

TOPOLOGY (TOPOLOGIA/ KANNABIFO)

topology	≡	kannabifo
graph (topological)	≡	olukobo (olw'ekinnabifo)
vertex	≡	obwanga
edge	≡	olukugilo
face	≡	olwenyi
network	≡	olukobo
node	≡	obwanga
arc	≡	olukugilo
region	≡	olwenyi
order of a vertex	≡	obusengeke bw'obwanga
even vertex	≡	obwanga obw'ensaasaaba
odd vertex	≡	obwanga obw'ensuusuuba
Euler's formula	≡	enkukulilo ya Euler
traversable	≡	F•bungika
unicursal	≡	F_{pro}•kkubolimu
topological transformations	≡	emifuulo gy'ekinnabifo
topologically equivalent	≡	F•wendonkanyi kinnabifo
Schlegel diagram	≡	olukobayime lwa Schlegel

TRANSFORMATION GEOMETRY (GEOMETRIA W'EMIFUULO)

transformation	≡	okufuula, omufuulo

transformation geometry	≡	geometria w'emifuulo
object	≡	ekikonsi
image	≡	ekikonsiwuko
translation	≡	okuseetuka
rotation	≡	okwetooloola
centre of rotation	≡	entabilo y'okwetooloola
reflection	≡	okuwetakaka, omuwetakako
mirror line	≡	olulayini lw'endabilwamu
glide reflection	≡	omuwetakako gw'okuseeyeeya
isometry	≡	obupimankanyi
direct isometry	≡	obupimankanyi obuteleevu
enlargement	≡	okugaziya
scale factor	≡	omubazisaganyo gw'okugaziya
centre of enlargement	≡	entabilo y'okugaziya
shear	≡	okumwa

TRIANGLES (NNANSONDASSATWE)

triangle	≡	nnansondassatwe
scalene triangle	≡	nnansondassatwe enkugilonkunyi
isosceles triangle	≡	nnansondassatwe ensambinkanyi
equilateral triangle	≡	nnansondassatwe enkugilonkanyi
acute triangle	≡	nnansondassatwe ensongovu
obtuse triangle	≡	nnansondassatwe enkugguye
right-angled triangle	≡	nnansondassatwe nnansondassimba
hypotenuse	≡	olukono
base	≡	omusingi
perpendicular height	≡	obugulumivu ssimba
altitude (= perpendicular		

height)	≡	obugulumivu ssimba
median	≡	olukatisi
median triangle	≡	nnansondassatwe enkatisi
circumcircle	≡	enkulungobuga
incircle	≡	enkulungomilo

TRIGONOMETRY (TRIGONOMETRIA/ KAPIMANNANSONDASSATWE)

trigonometry	≡	kapimannansondassatwe; trigonometria
trigonometric ratios	≡	embalaganosi z'ekitrigonometria
sine	≡	sinusi
inverse sine	≡	sinusi engalike = sinusiggalike
cosine	≡	kosinusi
inverse cosine	≡	kosinusi engalike = kosinusiggalike
tangent	≡	tangenti
inverse tangent	≡	tangenti engalike = tangentiggalike
cosecant	≡	kosekanti
secant	≡	sekanti
cotangent	≡	kotangenti
Pythagoras' theorem	≡	theorema ya Pythagoras
sine rule	≡	ekizuuliso kya sinusi
cosine rule	≡	ekizuuliso kya kosinusi
sine curve	≡	oluwete lwa sinusi
cosine curve	≡	oluwete lwa kosinusi
tangent curve	≡	oluwete lwa tangenti
periodicity	≡	obuddanasi

VECTORS (VEKTA)

vector	≡	enjolesi (F• (y)olesi

scalar	≡	ennambisi (F•lambisi)
plane vector	≡	enjolesi y'oluseetwe
position vector	≡	enjolesi y'obwesangilo
free vector	≡	enjolesi ennembe
absolute value	≡	omuwendo ggeleggele
scalar multiplication	≡	okubaza kw'ennambisi
unit vector	≡	omunwe gw'enjolesi
negative vector	≡	enjolesi enneddayi
orthogonal vectors	≡	enjolesi ssimba
vector addition	≡	okugatta kw'enjolesi
resultant	≡	ekivaamu
vector triangle	≡	nnansondassatwe y'enjolesi

References

Borowski, E J and J M Borwein (1999) *Unwin Hyman Dictionary of Mathematics*

Kiingi, K B (2024) *English-Luganda Affixal Formulae for Coining Specialized Luganda Terms*

Shapiro, Max S (1977) *Mathematics Encyclopedia*

Tapson, Frank (1996) *The Oxford Mathematics Study Dictionary*