

# Glossary

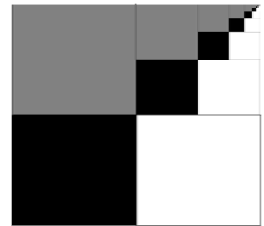
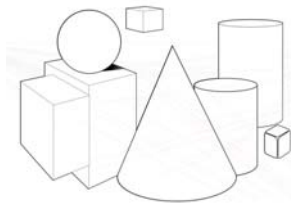
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## High School Level Geometry Glossary

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### English / Mandinka

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Translation of Geometry terms based on the Coursework for Geometry Grades 9 to 12.

Word-for-word glossaries are used for testing accommodations for ELL/LEP students

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## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	MANDINKA
<b>Problem Solving</b>	<b>Problémo Tobénno</b>
AA triangle similarity	AA trianglo bolinwo
AAA triangle similarity	AAA trianglo bolilinwo
AAS triangle congruence	AAS trianglo congruenso
additive property of equality	properté équalité kaffulinwo
algorithm	algorithmo
apply	kée
ASA triangle congruence	ASA trianglo congruenso
conjecture	conjecturo
constraints	bililolu
construct	constructo
discover	lono
dynamic geometry software	Géométri dinamiko softwéro
explore	exploro
generalization	généralisasiyon
inductive reasoning	khakilimainductivo
justify	justifiyé
parameters	paramétro
reason	togna
truth value	tognavaloro
valid argument	togna bé kumominna
<b>Reasoning and Proof</b>	<b>Khakilima ani Togna</b>
AA triangle similarity	AA trianglo bolinwo
AAA triangle similarity	AAA trianglo bolinwo
AAS triangle congruence	AAS trianglo congruenso
analytical proof	Analitiko toгна
angle addition postulate	Anglo postulato kaffo
ASA triangle congruence	ASA trianglo congruenso
axiom	axiomo
biconditional	biconditionalo
conclusion	conclusiyon
conditional statement	kumakan conditionalo
conjecture	conjecturo
conjunction	conjuncsiyon
contradiction	contradicsiyon
contrapositive of a statement	kumakan contrapositivo
converse of a statement	kumakanwo controverso
counterexample	contéroexamplо
deductive proof	Déductivo toгна
deductive reasoning	déductivo khakilima
definition	A khoto
disjunction	disjoncsiyon
dynamic geometry software	Géométriko dinamiko softwéro
equivalence relation	Equivalenso relasiyon
Euclidean Parallel Postulate	Eucléjin Parallélo Postulato

## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	MANDINKA
explain	kha gnafo
geometry	géométri
hypotenuse and leg triangle congruence	Hipotennuso ani trianglo congruensosinwo
hypothesis	hipothéso
indirect proof	togna directo
inductive reasoning	Inductivo khakilima
inverse of a statement	kumakanwo inverso
investigate	gnininkaro
justify	justiyé
logical equivalence	Equivalenso tilininwo
negation	négasiyon
paragraph proof	togna paragrapho
parallel postulate (s)	Parallélo postulato(lu)
proof	togna
proof by contradiction	togna anicontradicsiyon
proportional	propertionalo
Pythagorean Theorem	Pithagoriyin Théorémo
reason	khakilo
reflexive property of equality	properté égalité réfléxivo
SAS triangle congruence	SAS trianglo congruenso
SAS similarity theorem	SAS théorémo bolinwo
SSS triangle congruence	SSS trianglo congruenso
substitution property	substitusiyon properté
subtraction property of equality	properté aqualité subtracsiyon
symmetric property of equality	simmétriko properté égalité
theorem	théorémo
transformational proof	togna yélémalo
transitive property of equality	Properté égalitétransitivo
truth value	Tigna valoro
two-column proof	colono-fula toгна
undefined terms	khoto n'té térmominna
union of sets	setolu la kaffo
valid argument	togna bé kumo minna
<b>Communication</b>	<b>Kathiaa</b>
axiom	axiomo
bi-conditional	bi-conditionalo
compound statement	kuma kan suwo
conclusion	conclusiyon
conjecture	conjecturo
conjunction	conjuncsiyon
contrapositive of a statement	kumakanwo contrapositivo
definition	akhoto
disjunction	disjuncsiyon
explain	kha gnafo
hypothesis	hipothéso
Inverse of a statement	Kumakanwoinverso

## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	MANDINKA
justify	justifyé
negation	négasiyon
theorem	théorémo
truth value	tognavoloro
undefined terms	khoto n'ta termominna
Connections	Connecsiyonlu
apply	kée
compound locus	locusosuwo
discover	lono
intersection of sets	sétolu intersecsiyon
investigate	gnininkaro
spatial relationships	spatialotériya
union of sets	sétolukaffo
Representation	Réprésentasiyon
analytical geometry	Analitiko géométri
coordinate geometry	Géométri coordinato
definition	A khoto
Euclidean geometry	Euclijin géométri
function	foncsiyon
graphical representation	Graphiko réprésentasiyon
locus of points	Locuso équivalenso
logical equivalence	Equivalenso tilinwo
non-Euclidean geometry	Euclijin géométri-n'té
three dimensional space	Dimentionalo spasso saba
transformational geometry	Géométri transformasiyon
two dimensional space	Dimensiyon spasso fula
Geometric Relationships	Géométriko Tériya
AA triangle similarity	AA trianglo bolinwo
AAA triangle similarity	AAA trianglo bolinwo
AAS triangle congruence	AAS trianglo congruenso
ASA triangle congruence	ASA trianglo congruenso
absolute value	Valoro absoluwo
acute angle	Anglo dadimanwo
acute triangle	Trianglo dadimanwo
adjacent angles	Anglolua djacenwo
algebraic representation	Algébriko réprésentasiyon
alternate interior angles	Anglolu kono la alternato
altitude	janjaya
analytical geometry	Analitiko géométri
angle	anglo
angle bisector	Anglo bisectoro
angle measure	Anglo mésuru
apothem	apothémo
arc	arco

## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	MANDINKA
arc measure	arco mésuró
area	dula
axis of symmetry	Simmétri axo
base	baso
betweenness	témala
bisector	bisectoro
center of a circle	Cérclo centro
center of a regular polygon	Poligono régularo centro
center of gravity	gravité centro
central angle	Anglo centro
central angle of a regular polygon	poligono regular anglocentro
centroid	centroido
chord	chordo
circle	cérclo
circumcenter	circumcentéro
circumcircle (about a polygon)	circumcérclo (poligonoakola)
circumference	circumférenso
collinear points	Collinéyéro poinwo
common tangents	Tangenlu kiling
complementary angles	Anglolu complémenwo
concave polygon	Concavo poligono
concentric circles	Concentriko cerclo
concurrent lines	Oncurrenwo ligno
cone	cono
congruence	congruenso
conic sections	Coniko secsiyonlu
constant of proportionality	Proportionalité minsi tu dula kiling
convex polygon	Convexo poligono
coordinate geometry	Géométriko cordinato
coplanar	coplanaro
corresponding angles	Anglolu corespondanwo
corresponding parts	partilu corepondanwolu
corresponding side	coté corespondanwo
cross-section	cross-secsiyon
cube	cubo
cylinder	cylindro
definition	akhoto
diagonal	diagonalo
diameter	diaméto
dihedral angle	Dihédralo anglo
distance	distanso
distance between a point and a line	Distanso mumbé poinwo ani lingo téma
distance between two parallel lines	Distanso mumbé lingo parallélo fula téma
distance between two points	Distanso mumbé poinwo fula téma
dodecahedron	dodécahédrono
ellipse	éllipso
endpoint	Dan dula

## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	MANDINKA
equiangular	équiannngularo
equidistant	distanso bé kiling
equilateral triangle	Equilatéralo trianglo
equilateral polygon	Equilatéralo poligono
Euclidean Geometry	Euclijin Géométri
Euclidean Parallel Postulate	Euclijin Parallélo Postulato
exterior	banta
exterior angle	Anglo mibébanta
external secant segment	sécant ségmenwo mimbé banta
face of a polyhedron	Polihédrono gnada
foot of an altitude	Janjaya sinwo
function	foncsiyon
geometric mean	Géométriiko moyin
geometry	géométri
golden ratio	Ratio sanu ma
golden rectangle	Rectanglo sanuma
great circle	Cérclo warmanwo
hemisphere	hémisphéro
Heron's formula	Héron la formulo
hexagon	héxagono
hypotenuse	hipoténuso
icosahedron	icosahédrono
in center of a polygon	Poligono téma
inclination	jinkélinwo
inscribed angle	Anglo inscribo
inscribed circle	Cérclo inscribo
intercepted arc	arco intercepto
intercepts	interceptolu
interior	konola
intersecting lines	Intersecto lignolu
isosceles trapezoid	Isoscélo trapézo
isosceles triangle	Isoscélo trianglo
kite	kito
lateral area of a prism	dula primo latéralo
lateral edge	Latéralo danwo
lateral face	Latéralo gnada
lateral surface	Latéralo santola
legs of a right triangle	trianglo sing mara
legs of a isosceles trapezoid	Isoscélo trapézo sinwolu
length	loo
line	ligno
line segment	Ségmenwo ligno
linear pair	Linéyéro paio
locus of points	Locuso poinwo
major arc	arco majoro
mean proportional	Proportionalo moyin
measure of an angle	Anglo mésuru

## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	MANDINKA
measure of an arc	arco méshuro
median of a trapezoid	trapézomédiano
median of a triangle	Trianglo médiano
midpoint	Poinwo téma
mid-segment	ségmenwo-téma
minor arc	arco minoro
n-gon	n-gono
non-collinear	collinéro-n'té
non-coplanar	coplanaro-n'té
non-Euclidean geometry	Euclijin géométri-n'té
obtuse angle	Obtuso anglo
obtuse triangle	Obtuso trianglo
octagon	octagono
octahedron	octahédrono
opposite rays	opposito rayo
orthocenter	orthocentro
orthogonal	orthogonalno
parabola	parabolo
parallel line segments	parallélo ligno ségmenwo
parallel lines	parallélo lignolu
parallelepiped	parallélo pipo
parallelogram	parallélogramo
pentagon	pentagono
perimeter	périmétéro
perpendicular bisector	perpendiculéro bisectoro
perpendicular bisector concurrence	perpendiculéro bisectoro concurrenso
perpendicular lines	perpendiculéro lignolu
perpendicular planes	perpendiculéro
pi	pii
plane	plano
point	poinwo
point of concurrency	concurenso poinwo
point of tangency	Tangenwo poinwo
polygon	poligono
polyhedron	polihédrono
prism	prismo
product property of proportions	proporsiyionlu properté produwo
proportional	proporsionalo
pyramid	piramido
Pythagorean Theorem	Pithagoro théorémo
quadrant	quadrano
quadratic equation	quadriko équasiyon
quadratic formula	quadratiko formulo
quadrilateral	quadrilatéralo
radius	radiuso
ratio	ratioso
ray	rayon



## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	MANDINKA
real numbers	niméro réyélo
rectangle	rectanglo
rectangular solid	rectanguléro goléyalinwo
regular polygon	régularo poligono
remote interior angles	anglolu konola dulajan
rhombus	rhombuso
right angle	anglo mara
right triangle	trianglo mara
scalene triangle	scaléné trianglo
secant	sécanto
segment	ségmenwo
segment of a circle	cérclo ségmenwo
semicircle	sémicérclo
set	séto
similar polygons	poligonolu bolinwo
similar triangles	trianglolu bolinwo
simple quadrilateral	Quadrilatéralo simplo
skew lines	skiwo ligno
slant height	slanto janjaya
slope	slopo
sphere	sphéro
square	squaro
supplementary angles	anglo supplémentéro
surface area	dula santola
tangent segment	tangento ségmenwo
tangent to a circle	tangento cerclo
tessellation	tésséllasiyon
tetrahedron	tétrahédrono
three-dimensional space	dimensiyon spasso-saba
topology	topologiwo
transformational geometry	transformationalo géométri
transversal	transversalo
trapezoid	trapézo
triangle	trianglo
triangle inequality	trianglo inéqualité
trigonometry of the right triangle	trianglo mara trigonométri
two-dimensional space	dimensiyon spasso fula
vector	véctoro
vertex	vertexo
vertical angles	anglo verticalo
vertical line	ligno verticalo
volume	volumo
x-axis	x-axo
x-intercept	x-intercépto
y-axis	y-axo
y-intercept	y-intercépto
z-axis	z-axo

## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	MANDINKA
<b>Constructions</b>	<b>Construcsiyonlu</b>
angle bisector	anglo bisectoro
bisector	bisectoro
center of a regular polygon	poligono régularo centro
center of gravity	gravité centro
circumcircle (about a polygon)	circumcérclo (poligono kola)
compass	compasso
construct	constructo
dynamic geometry software	géométri softwéro dinamiko
perpendicular bisector	perpendiculéro bisectoro
perpendicular bisector concurrence	perpendiculéro bisectoro concurenso
perpendicular lines	perpendiculéro ligno
straightedge	dantilinwo
<b>Locus</b>	<b>Locuso</b>
circle	cérclo
compound locus	locuso suwo
ellipse	éllipso
hyperbola	hiperbolo
locus of points	locuso poinwo
parabola	parabolo
<b>Formal and Informal Proofs</b>	<b>Formalo ani Informalo Tognalu</b>
AA triangle similarity	AA trianglo bolinwo
AAA triangle similarity	AAA trianglo bolinwo
AAS triangle congruence	AAS trianglo congruenso
ASA triangle congruence	ASA trianglo congruenso
angle addition postulate	anglo kaffulo postulato
axiom	axiomo
bi-conditional	bi-conditionalo
conclusion	conclusiyon
conditional statement	Kumaknwo conditionalo
conjecture	conjecturo
conjunction	conjoncsiyon
contradiction	contradicsiyon
contrapositive of a statement	Kumakanwo contrapositivo
converse of a statement	Kumakanwo converso
counterexample	contéroexemplo
deductive reasoning	Khakilma déductivo
definition	akhoto
disjunction	disjuncsiyon
dynamic geometry software	géométri softwéro dinamiko
equivalence relation	relasiyon équivalenso
Euclidean Parallel Postulate	Euclijin Parallélo Postulato
hypotenuse and leg triangle congruence	hipoténuso ani trianglo congruenso sinwo
indirect proof	togna indirecto

## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	MANDINKA
inductive reasoning	khakilima inductivo
inverse of a statement	kumakanwo inverso
justify	Kha justifiyé
logical equivalent	equivalenwo logicalo
negation	négasiyon
parallel postulate (s)	parallélo postulato (lu)
postulate	postulato
proof	provo
proof by contradiction	contradicsiyon ani provo
Pythagorean Theorem	Pitahagoro Théorémo
reason	khakilo
reflexive property of equality	properté égalité réfléxivo
SAS triangle congruence	SAS trianglo congrenso
SAS similarity Theorem	SAS Théorémo bolinwo
SSS triangle congruence	SSS trianglo congruenso
substitution property	substituiyon properté
subtraction property of equality	properté égalité subtracsiyon
symmetric property of equality	égalité properté simmétriko.
theorem	théorémo
transitive property of equality	properté égalité transitivo
transformational proof	transformationalo provo
truth value	togna valoro
two-column proof	colono toгна-fula
undefined terms	Khoton n'té termo la
union of sets	sétolu kaffo
valid argument	togna bé kumo minna
<b>Transformational Geometry</b>	<b>Transformasiyonaló Géométri</b>
axis of symmetry	simmétri axo
center of a dilation	dilasiyon centro
center of a rotation	minimino centro
clockwise (orientation)	monturo (orientasiyon)
composition	composiyon
constant of proportionality	proportionalité minsi tu dula kiling
contraction	contracsiyon
counterclockwise (orientation)	contéro montoro(orientasiyon)
dilation	dilasiyon
direct transformation	yélémaló directo
domain	domaino
dynamic geometry software	géométriko softwéro dinamiko
fixed point	poinwo mimbé loring dulakiling
function	foncsiyon
function notation for transformations	foncsiyon notasion puru yélémalólu
glide reflection	réflécsiyon namayalinwo
group	grupo
half-turn	mininwo tala
identity	identité

## GEOMETRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	MANDINKA
image	imajo
inverse of a transformation	yélémalo inverso
isometric	isométri
mapping (function)	mappo (foncsiyon)
opposite transformation	yélémélo opposito
orientation	orientasiyon
pre-image	imajo-folo
reflection	réflecsiyon
rotation	minimino
rotational symmetry	minimino simmétri
symmetry	simmétri
tessellation	tésséllasiyon
transformation	yélémalo
transformational geometry	géométri transformationalo
translation	translasiyon
transformational geometry	géométri transformationalo
translation	translasiyon
<b>Coordinate Geometry</b>	<b>Coordinato Géométri</b>
abscissa	abscisso
analytical geometry	analitiko géométri
analytical proof	analitiko provo
Cartesian coordinates	Cartésin coordinato
Cartesian plane	Cartésin plano
center-radius equation of circle	centro-radiasiyon équasiyon cérclo
coordinate	coordinato
coordinate geometry	coordinato géométri
coordinate plane	coordinato plano
distance between two points	distanso mimbé poinwo fula téma
origin	abodula
point slope equation of a line	ligno poinwo slopo équasiyon
rectangular coordinates	rectanguléro coordinatolu
slope - intercept equation of a line	signo slopo-intercepto équasiyon
three-dimensional space	spasso dimentionalo saba
two-dimensional space	spasso dimentionalo fula
vector	vectoro
x-axis	x-axo
x-intercept	x-intercépto
y-axis	y-axo
y-intercept	y-intercepto
z-axis	z-axo

## NYS Grades 9 – 12 Math Terms Addenda

Common Core Math Standard	ENGLISH	MANDINKA
N-RN.B.3	non-zero rational number	rationalo niméro nté-zéro ti
A-SSE.A.1	difference of squares, example: $(a^2 - b^2)$	sqauarolu différenso exemplo: $(a^2 - b^2)$
A-SSE.A.1	square of a difference, example: $(a - b)^2$	sqvaro différenso, exemplo: $(a - b)^2$
A-SSE.B.3	equivalent monthly interest rate	karo gnokhona intéré rato
A-CED.A.1	exponential equation	exponentialo équasiyon
A-CED.A.3	non-viable options (inequalities)	opsiyon munté viabililin (inqualitélu)
A-CED.A.3	viable options (inequalities)	opsiyon viabililin (inqualitélu)
A-REI.A.1	viable argument	kumakan viabililin
A-REI.D.12	half-plane	plano-téma
A-REI.D.11	logarithm function	foncsiyon logaritmo
F-IF.C.8	piece-wise defined function	piece-wiso khoto dita foncsiyon
F-IF.C.8	step function	stépo foncsiyon
F-IF.C.8	absolute-value function	valoro absoluwo foncsiyon
F-BF.A.1	recursive process	récurso takhgna
F-Bf.B.3	even function	funcsiyon kiling
F-BF.B.3	odd function	foncsiyon bizarlin
F-LE.A.1	constant percent rate	purcenwo rato munta dulakiling
S-ID.B.5	categorical data	catégoriko maradula
S-ID.B.5	joint frequency	jointo fréquenso
S-ID.B.5	marginal frequency	marginalo fréquenso
S-ID.B.5	conditional relative frequency	conditionalo relativo fréquenso
S-ID.B.6	fit of a function	foncsiyon labénno
S-ID.B.6	residuals	résidualolu
S-ID.C.8	correlation coefficient	corrélasiyon coéfficienwo
S-ID.C.8	linear fit	linéro labénno
S-ID.C.9	correlation and causation	corrélasiyon ani causasiyon
S-ID.C8	linearity	linéarité
S-ID.C8	linear phenomenon	linéro phénoméno
N-Q.A.3	data point	maradula poinwo
N.C.N.4	complex plane	plano compléxo
N.C.N.5	conjugation of complex numbers	niméro complexo conjugéson
N-V.M.6	incidence relationship (payoff)	incidenso tériya (ajuntala)
N-Q.A.2	descriptive modeling	descriptivo modélo
S-REI.A.2	algebraic manipulation	algébriko manipulasiyon

### KEYS

N-Q = Number & Quantity

SSE = Seeing Structures in Expressions

RN = Real Number System

BF = Building Functions

ID = Interpreting categorical and quantitative Data

CED = Creating Equations Describing numbers or relationships

REI = Reasoning with Equations & Inequality

VM = Vectors & Matrix quantities

IF = Interpreting Functions

ID = Interpreting categorical and quantitative Data

APR = Arithmetic with Polynomials & Relational expressions