# Glossary

## High School Level

# Integrated Algebra Glossary

## English / Mandinka

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

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

# High School Integrated Algebra

| ENGLISH | MANDINKA |
|---|---|
| **Problem Solving** | **Problémo Tobénno** |
| algebraically | algébrikma |
| concept | concépto |
| conjecture | conjecturo |
| constraint | khakéfango la |
| equivalent | équivalenwo |
| formulate | Kha formulé |
| generalization | généralissiyon |
| graphically | graphikma |
| multiple representations | Représentasiyon siyama |
| numerically | nimérikma |
| parameter | paramétro |
| pattern | noo |
| relative efficiency | éfficienso relativo |
| strategy | féro |
| verbally | verbalo |
| **Reasoning and Proof** | **Khakilima ani Togna** |
| Appropriate | Munbétéyata |
| approximation | approximasiyon |
| argument | kuma kanwo |
| claim | gnininkaro |
| conclusion | conclusiyon |
| conjecture | conjecturo |
| counterexample | Contéro exemplo |
| explain | gnafolo |
| inductive reasoning | Khakilima inductivo |
| logical argument | kuma kan tilininwo |
| mathematical conjecture | Mathématiko conjecturo |
| proof | provo |
| refute | khi ban |
| systematic approach | Sistématiko approcho |
| validity | tognadin |
| Venn diagram | Vénno diagramo |
| verify | kajibé |

# High School Integrated Algebra

| ENGLISH | MANDINKA |
|---|---|
| **Communication** | **Kathiaa** |
| accuracy | goddo |
| analyze | analiso |
| argument | kuma kanwo |
| coherent | Abé tilining |
| communicate | Khé communiké |
| comprehension | famuyalo |
| conclusion | conclusiyon |
| conjecture | conjecturo |
| decoding | décodélo |
| elicit | amanséniya |
| equation | équasiyon |
| evaluate | khajaté |
| extend | bugna |
| formula | formulo |
| function | foncsiyon |
| graph | grapho |
| interpretation | interprétasiyon |
| mathematical visual | Mathématiko jélo |
| rationale | rationalo |
| standard (mathematical) notation | standaro (mathématiko) notasiyon |
| strategy | fero |
| table | tablo |
| technical writing | Saféligna téchniko |
| terminology | terminologiwo |
| valid | abéyata |
| **Connections** | **Connecsiyonlu** |
| coherent whole | a béébétilining |
| concept | concépto |
| connection | connecsiyon |
| formulate | khaformulé |
| physical model | phisikomodélo |
| procedure | kégna |

# High School Integrated Algebra

| ENGLISH | MANDINKA |
|---|---|
| quantitative model | quantitative modélo |
| representation | réprésentasiyon |
| **Representation** | **Réprésentasiyon** |
| angle of elevation | anglo lawuli gna |
| array | rétaro |
| chart | charto |
| compare | Khi bo gnokhonto |
| diagram | diagramo |
| equation | équasiyon |
| function | foncsiyon |
| graph | grapho |
| interpret | firino |
| mathematical phenomena | Mathématiko phénoméno |
| organize | organisélo |
| physical phenomena | Phisiko phénoméno |
| profit | tono |
| record | enrégistréma |
| social phenomena | social phénoméno |
| symbol | simbolo |
| table | tablo |
| technology | technologiwo |
| translate | a firin |
| **Number Sense and Operations** | **Senso Niméro ani Opérasiyon** |
| absolute value | Valoro absoluwo |
| algebraic problem | Algébriko problémo |
| arithmetic operation | Arithmétiko opérasiyon |
| arrangements (permutations) | tobinnolu (fallino) |
| associative property | associative properté |
| closure property | Properté datakhono |
| commutative property | Commutativo properti |
| counting techniques | Contélu téchniko |
| decimal | décimalo |
| denominator | dénominatoro |

# High School Integrated Algebra

| ENGLISH | MANDINKA |
|---------|----------|
| discount | disconté |
| distributive property | Distribusiyon propérté |
| exponential expression | Exponentialo expréssiyon |
| expression | expréssiyon |
| factorial | factoriyélo |
| field | kéna |
| fraction | fracsiyon |
| Fundamental Counting Principle | Fondamentalo ContéloPrincipo |
| group | grupo |
| identity property | Properté identité |
| inverse property | Properté inverso |
| like/unlike radical terms | killing/radical termo kiling té |
| number theory | Niméro théoriwo |
| numerator | nimératoro |
| percent of increase/decrease | Purcenwo yélinta/jiguita |
| product | produwo |
| properties of the Real numbers | Niméro réyélo properté |
| proportionality/direct variation | proportionalité/yélémalo directo |
| quotient | quotienwo |
| radical | radicalo |
| radicand | radicando |
| real numbers | Niméro réyélo |
| scientific notation | Scientifiko notasiyon |
| simplest form | Formo mimbé nokhoyalin abéti |
| variable | variablo |
| **Algebra** | **Algébro** |
| acute angle | Anglo dadimanwo |
| adjacent side/angle | Adjacenwo coté/anglo |
| algebraic equation | Algébriko équasiyon |
| algebraic expression | Algébriko expréssiyon |
| algebraic fraction | Algébriko fracsiyon |
| analyze | analiso |
| axis of symmetry | Simmétri axo |
| binomial | binomialo |

# High School Integrated Algebra

| ENGLISH | MANDINKA |
|---|---|
| coefficient | coéfficienwo |
| common base | basokiling |
| complement of a subset | Yélémalo complémenwo |
| coordinates | cordinatolu |
| cosine | cosinuso |
| dependent | dépendenwo |
| difference of two perfect squares | Squaro bétéman fula différenso |
| element | élémenwo |
| equation | équasiyon |
| exponent | exponenwo |
| exponential growth and decay | Éxponentialo yiriwa ani rétaro |
| expression | expréssiyon |
| factoring | Kha factoré |
| fractional expression | Fractionalo expréssiyon |
| greatest common factor (GCF) | factoro killing warman baa (GCF) |
| hypotenuse | hipoténuso |
| independent variable | Indépendenwo variablo |
| inequality | inéquasiyon |
| integer | intégré |
| integral coefficient | Coéfficienwo intéralo |
| integral exponent | Exponenwo intégralo |
| integral root(s) | intégralolilo (lu) |
| intersection of sets | Intersécsiyon réglajo |
| interval notation | interval notasiyon |
| lead coefficient | Coéfficienwo gnamokho |
| legs of a right triangle | trianglo sing mara |
| line parallel to the x- or y-axis | Parallélo ligno kha takha x-wala y-axo |
| linear equation in one variable | Linévéro équasiyon ani variablo kiling |
| linear inequality in one variable | Linéyéro inéquasiyon ani variablo kiling |
| literal equation | Litéralo équasiyon |
| lowest terms fraction | fracsiyon térmo mu doyata abéti |
| monomial | monomialo |
| multiplication property of zero | Zéro properté multiplicasiyon |
| opposite side/angle | coté oppose/anglo |
| parabola | parabolo |

# High School Integrated Algebra

| ENGLISH | MANDINKA |
|---|---|
| parallel | parallélo |
| polynomial | polinomialo |
| product | produwo |
| properties of exponents | propertélé |
| proportion | proporsiyon |
| Pythagorean Theorem | Pithagoro Théorémo |
| quadratic equation | Quadratiko équasiyon |
| quantitative | quantitativo |
| quotient | quptienwo |
| ratio | ratioso |
| relation | relasiyon |
| right angle | Anglo mara |
| right triangle | triangle mara |
| root(s) of an equation | lilo(lu) équasiyon |
| roster form | rostéroformo |
| set | réglajo |
| set-builder notation | réglajo-dada la notasiyon |
| sine | sinuso |
| slope | slopo |
| solution set | solusiyonréglajo |
| subset | subséto |
| sum | khako |
| system of linear inequalities | Inéqualitélu linéyéro sistémo |
| systems of linear equations | Équasiyonlu linéyéro sistémo |
| tangent | tangenwo |
| translate (from verbal to symbolic) | a firin (khébo verbo la khé takha simboliko) |
| trigonometry | trigonométriwo |
| trinomial | trinomialo |
| undefined | khotonntala |
| union of sets | réglajokaffo |
| universal set | universélo réglajo |
| variable | variablo |
| verbal expression | verbaloexpréssiyon |
| verbal sentence | verbal fraso |
| vertex | vertexo |

# High School Integrated Algebra

| ENGLISH | MANDINKA |
|---|---|
| x-axis | x-axo |
| y-axis | y-axo |
| **Geometry** | **Géométri** |
| absolute value function | foncsiyon valoro absoluwo |
| angle | anglo |
| area | dula |
| axis of symmetry of a parabola | simmétri axo parabolo |
| circle | cérclo |
| coefficient | coéfficienwo |
| cylinder | cilindro |
| decagon | décagono |
| exponential function | exponentialo foncsiyon |
| function | foncsiyon |
| generalize | généralisélo |
| geometric shape | géométriko sugo |
| graph of a relation | grapha relasiyon |
| hexagon | héxagono |
| investigate | gnininlo |
| nonagon | nonagono |
| octagon | octagono |
| ordered pair | pairo yamaro |
| parabolic function | foncsiyon paraboliko |
| parallelogram | parallélogramo |
| pentagon | pintagono |
| perimeter | périmétro |
| polygon | poligono |
| quadrilateral | quadrilatéralo |
| quarter-circle | quartéro-cérclo |
| rational coefficient | rationalo coéffienwo |
| rectangle | réctanglo |
| rectangular solid | réctanguléro goléyalin |
| regular polygon | régularo polygono |
| relation | relasiyon |
| rhombus | rhombuso |

# High School Integrated Algebra

| ENGLISH | MANDINKA |
|---------|----------|
| roots of a parabolic function | foncsiyin parabolik lilolu |
| sector of a circle | cérclo sectoro |
| semi-circle | cérclo tala |
| spatial reasoning | spatialo khakilima |
| square | squaro |
| surface area | dula surffasso |
| trapezoid | trapézo |
| triangle | trianglo |
| vertex | vertéxo |
| visualization | yitalo |
| volume | volumo |
| **Measurement** | **Mésuranwo** |
| appropriate unit | unité gnuma |
| conversion | maralo |
| cubic unit | unité cubiko |
| error | fililo |
| linear measure | linéyéro mésuré |
| linear unit | linéyéro unité |
| magnitude | magnitudo |
| measurement system | sistémo mésuro |
| rate | rato |
| relative error | fililo domadin |
| square unit | squaro unité |
| unit | unité |
| **Statistics and Probability** | **Statistiko ani Probabilité** |
| appropriateness | mun bétéyata |
| biased | mun man bin |
| bivariate | bivariéto |
| box-and-whisker plot | boxo-ani whisko ploto |
| calculated probability | probabilité jaté |
| categorize | catégoriyo |
| causation | cosasiyon |
| central tendency | centralo tendensso |

# High School Integrated Algebra

| ENGLISH | MANDINKA |
|---|---|
| complement | complémenwo |
| conditional probability | coditionalo probabilité |
| correlation | corélasiyon |
| cumulative frequency distribution table | cumulativo fréquenso diilo tablo |
| cumulative frequency histogram | cumulativo fréquenso histogramo |
| data | mara dula |
| dependent events | tumolu dépendenwo |
| dependent variable | dépendanwo variablo |
| element | élémenwo |
| empirical probability | émpiricalo probabilité |
| experimental design | éxpérimentalo bakéla mukhama |
| extrapolation | extrapolasiyon |
| favorable event | tuma gnuma |
| finite sample space | inito samplo spasso |
| five statistical summary | statistiko lulu dalajélinwo |
| frequency distribution table | fréquenso diilo tablo |
| histogram | histogramo |
| independent events | indépendenwo tumolu |
| independent variable | indépendenwo variablo |
| interpolation | interpolasiyon |
| line of best fit | ligno mun binta kugnuma |
| linear transformation | linéyéro yélémalo |
| maximum | danwo la |
| mean | moyin |
| measure of central tendency | centralo tendenso mésuro |
| median | médiano |
| minimum | min doyata |
| mode | modo |
| mutually exclusive events | exclusivo tumolu mutuwélo |
| not mutually exclusive events | exclusivo tumolu minté mutuwélin |
| percentile rank | percentilo ranwo |
| probability | probabilité |
| qualitative | qualitativo |
| quantitative | quantitativo |

# High School Integrated Algebra

| ENGLISH | MANDINKA |
|---|---|
| quartiles (specifically: first, second, third or lower, middle, upper) | quartilu (surtu: folo, fulajanwo,sabajanwo wala mun doyata,téma,santo) |
| range | ranjo |
| sample space | samplo spasso |
| scatter plot | ploto janjalo |
| series | sériyolu |
| Univariate | variyéto kiling |

# 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 examplo: $(a^2 - b^2)$ |
| A-SSE.A.1 | square of a difference, example: $(a-b)^2$ | squaro différenso, examplo: $(a-b)^2$ |
| 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 viablilin (inqualitélu) |
| A-CED.A.3 | viable options (inequalities) | opsiyon viablilin (inqualitélu) |
| A-REI.A.1 | viable argument | kumakan viablilin |
| 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 | récursivo 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 & Metrix quantities

IF = Interpreting Functions

ID = Interpreting categorical and quantitative Data

APR = Arithmetic with Polynomials & Relational expressions

NYS Statewide Language RBERN