Here is a list of all of the skills students learn in Algebra! The skills are organized into categories, and you can move your mouse over any skill name to see a sample question. To start practicing, just click on any link. IXL will track your score, and the questions will even increase in difficulty as you improve!

**Numbers**

* A.1 [Classify numbers](http://www.ixl.com/math/algebra-1/classify-numbers)
* A.2 [Compare and order rational numbers](http://www.ixl.com/math/algebra-1/compare-and-order-rational-numbers)
* A.3 [Absolute value and opposites](http://www.ixl.com/math/algebra-1/absolute-value-and-opposites)
* A.4 [Number lines](http://www.ixl.com/math/algebra-1/number-lines)
* A.5 [Convert between decimals and fractions](http://www.ixl.com/math/algebra-1/convert-between-decimals-and-fractions)
* A.6 [Square roots](http://www.ixl.com/math/algebra-1/square-roots)
* A.7 [Cube roots](http://www.ixl.com/math/algebra-1/cube-roots)

**Operations**

* B.1 [Add, subtract, multiply, and divide integers](http://www.ixl.com/math/algebra-1/add-subtract-multiply-and-divide-integers)
* B.2 [Order of operations with integers](http://www.ixl.com/math/algebra-1/order-of-operations-with-integers)
* B.3 [Evaluate variable expressions involving integers](http://www.ixl.com/math/algebra-1/evaluate-variable-expressions-involving-integers)
* B.4 [Add and subtract rational numbers](http://www.ixl.com/math/algebra-1/add-and-subtract-rational-numbers)
* B.5 [Multiply and divide rational numbers](http://www.ixl.com/math/algebra-1/multiply-and-divide-rational-numbers)
* B.6 [Order of operations with rational numbers](http://www.ixl.com/math/algebra-1/order-of-operations-with-rational-numbers)
* B.7 [Evaluate variable expressions involving rational numbers](http://www.ixl.com/math/algebra-1/evaluate-variable-expressions-involving-rational-numbers)

**Ratios and proportions**

* C.1 [Identify equivalent ratios](http://www.ixl.com/math/algebra-1/identify-equivalent-ratios)
* C.2 [Equivalent ratios: fill in the missing number](http://www.ixl.com/math/algebra-1/equivalent-ratios-fill-in-the-missing-number)
* C.3 [Unit rates](http://www.ixl.com/math/algebra-1/unit-rates)
* C.4 [Unit prices](http://www.ixl.com/math/algebra-1/unit-prices)
* C.5 [Solve proportions](http://www.ixl.com/math/algebra-1/solve-proportions)
* C.6 [Solve proportions: word problems](http://www.ixl.com/math/algebra-1/solve-proportions-word-problems)
* C.7 [Scale drawings and scale factors](http://www.ixl.com/math/algebra-1/scale-drawings-and-scale-factors)

**Percents**

* D.1 [Convert between percents, fractions, and decimals](http://www.ixl.com/math/algebra-1/convert-between-percents-fractions-and-decimals)
* D.2 [Solve percent equations](http://www.ixl.com/math/algebra-1/solve-percent-equations)
* D.3 [Percent word problems](http://www.ixl.com/math/algebra-1/percent-word-problems)
* D.4 [Percent of change](http://www.ixl.com/math/algebra-1/percent-of-change)
* D.5 [Percent of change: word problems](http://www.ixl.com/math/algebra-1/percent-of-change-word-problems)
* D.6 [Percent of a number: tax, discount, and more](http://www.ixl.com/math/algebra-1/percent-of-a-number-tax-discount-and-more)
* D.7 [Find the percent: tax, discount, and more](http://www.ixl.com/math/algebra-1/find-the-percent-tax-discount-and-more)
* D.8 [Multi-step problems with percents](http://www.ixl.com/math/algebra-1/multi-step-problems-with-percents)

**Measurement**

* E.1 [Convert rates and measurements: customary units](http://www.ixl.com/math/algebra-1/convert-rates-and-measurements-customary-units)
* E.2 [Convert rates and measurements: metric units](http://www.ixl.com/math/algebra-1/convert-rates-and-measurements-metric-units)
* E.3 [Unit prices with unit conversions](http://www.ixl.com/math/algebra-1/unit-prices-with-unit-conversions)
* E.4 [Precision](http://www.ixl.com/math/algebra-1/precision)
* E.5 [Greatest possible error](http://www.ixl.com/math/algebra-1/greatest-possible-error)
* E.6 [Minimum and maximum area and volume](http://www.ixl.com/math/algebra-1/minimum-and-maximum-area-and-volume)
* E.7 [Percent error](http://www.ixl.com/math/algebra-1/percent-error)
* E.8 [Percent error: area and volume](http://www.ixl.com/math/algebra-1/percent-error-area-and-volume)

**Geometry**

* F.1 [Perimeter](http://www.ixl.com/math/algebra-1/perimeter)
* F.2 [Area](http://www.ixl.com/math/algebra-1/area)
* F.3 [Volume](http://www.ixl.com/math/algebra-1/volume)
* F.4 [Surface area](http://www.ixl.com/math/algebra-1/surface-area)
* F.5 [Similar figures: side lengths and angle measures](http://www.ixl.com/math/algebra-1/similar-figures-side-lengths-and-angle-measures)
* F.6 [Similar triangles and indirect measurement](http://www.ixl.com/math/algebra-1/similar-triangles-and-indirect-measurement)
* F.7 [Dilations and scale factors](http://www.ixl.com/math/algebra-1/dilations-and-scale-factors)
* F.8 [Area and perimeter of similar figures](http://www.ixl.com/math/algebra-1/area-and-perimeter-of-similar-figures)
* F.9 [Similar solids](http://www.ixl.com/math/algebra-1/similar-solids)
* F.10 [Volume and surface area of similar solids](http://www.ixl.com/math/algebra-1/volume-and-surface-area-of-similar-solids)
* F.11 [Perimeter, area, and volume: changes in scale](http://www.ixl.com/math/algebra-1/perimeter-area-and-volume-changes-in-scale)
* F.12 [Pythagorean theorem](http://www.ixl.com/math/algebra-1/pythagorean-theorem)
* F.13 [Pythagorean theorem: word problems](http://www.ixl.com/math/algebra-1/pythagorean-theorem-word-problems)
* F.14 [Converse of the Pythagorean theorem: is it a right triangle?](http://www.ixl.com/math/algebra-1/converse-of-the-pythagorean-theorem-is-it-a-right-triangle)
* F.15 [Special right triangles](http://www.ixl.com/math/algebra-1/special-right-triangles)

**Coordinate graphs**

* G.1 [Coordinate graph review](http://www.ixl.com/math/algebra-1/coordinate-graph-review)
* G.2 [Midpoints](http://www.ixl.com/math/algebra-1/midpoints)
* G.3 [Distance between two points](http://www.ixl.com/math/algebra-1/distance-between-two-points)

**Properties**

* H.1 [Properties of addition and multiplication](http://www.ixl.com/math/algebra-1/properties-of-addition-and-multiplication)
* H.2 [Distributive property](http://www.ixl.com/math/algebra-1/distributive-property)
* H.3 [Simplify variable expressions using properties](http://www.ixl.com/math/algebra-1/simplify-variable-expressions-using-properties)
* H.4 [Properties of equality](http://www.ixl.com/math/algebra-1/properties-of-equality)

**Variable expressions and equations**

* I.1 [Write variable expressions](http://www.ixl.com/math/algebra-1/write-variable-expressions)
* I.2 [Simplify variable expressions involving like terms and the distributive property](http://www.ixl.com/math/algebra-1/simplify-variable-expressions-involving-like-terms-and-the-distributive-property)
* I.3 [Write variable equations](http://www.ixl.com/math/algebra-1/write-variable-equations)
* I.4 [Does x satisfy the equation?](http://www.ixl.com/math/algebra-1/does-x-satisfy-the-equation)
* I.5 [Find solutions from a replacement set](http://www.ixl.com/math/algebra-1/find-solutions-from-a-replacement-set)
* I.6 [Solve equations using order of operations](http://www.ixl.com/math/algebra-1/solve-equations-using-order-of-operations)

**Solve equations**

* J.1 [Model and solve equations using algebra tiles](http://www.ixl.com/math/algebra-1/model-and-solve-equations-using-algebra-tiles)
* J.2 [Write and solve equations that represent diagrams](http://www.ixl.com/math/algebra-1/write-and-solve-equations-that-represent-diagrams)
* J.3 [Solve one-step linear equations](http://www.ixl.com/math/algebra-1/solve-one-step-linear-equations)
* J.4 [Solve two-step linear equations](http://www.ixl.com/math/algebra-1/solve-two-step-linear-equations)
* J.5 [Solve advanced linear equations](http://www.ixl.com/math/algebra-1/solve-advanced-linear-equations)
* J.6 [Solve equations with variables on both sides](http://www.ixl.com/math/algebra-1/solve-equations-with-variables-on-both-sides)
* J.7 [Identities and equations with no solutions](http://www.ixl.com/math/algebra-1/identities-and-equations-with-no-solutions)
* J.8 [Solve linear equations: word problems](http://www.ixl.com/math/algebra-1/solve-linear-equations-word-problems)
* J.9 [Solve linear equations: mixed review](http://www.ixl.com/math/algebra-1/solve-linear-equations-mixed-review)

**Single-variable inequalities**

* K.1 [Graph inequalities](http://www.ixl.com/math/algebra-1/graph-inequalities)
* K.2 [Write inequalities from graphs](http://www.ixl.com/math/algebra-1/write-inequalities-from-graphs)
* K.3 [Identify solutions to inequalities](http://www.ixl.com/math/algebra-1/identify-solutions-to-inequalities)
* K.4 [Solve one-step linear inequalities: addition and subtraction](http://www.ixl.com/math/algebra-1/solve-one-step-linear-inequalities-addition-and-subtraction)
* K.5 [Solve one-step linear inequalities: multiplication and division](http://www.ixl.com/math/algebra-1/solve-one-step-linear-inequalities-multiplication-and-division)
* K.6 [Solve one-step linear inequalities](http://www.ixl.com/math/algebra-1/solve-one-step-linear-inequalities)
* K.7 [Graph solutions to one-step linear inequalities](http://www.ixl.com/math/algebra-1/graph-solutions-to-one-step-linear-inequalities)
* K.8 [Solve two-step linear inequalities](http://www.ixl.com/math/algebra-1/solve-two-step-linear-inequalities)
* K.9 [Graph solutions to two-step linear inequalities](http://www.ixl.com/math/algebra-1/graph-solutions-to-two-step-linear-inequalities)
* K.10 [Solve advanced linear inequalities](http://www.ixl.com/math/algebra-1/solve-advanced-linear-inequalities)
* K.11 [Graph solutions to advanced linear inequalities](http://www.ixl.com/math/algebra-1/graph-solutions-to-advanced-linear-inequalities)
* K.12 [Graph compound inequalities](http://www.ixl.com/math/algebra-1/graph-compound-inequalities)
* K.13 [Write compound inequalities from graphs](http://www.ixl.com/math/algebra-1/write-compound-inequalities-from-graphs)
* K.14 [Solve compound inequalities](http://www.ixl.com/math/algebra-1/solve-compound-inequalities)
* K.15 [Graph solutions to compound inequalities](http://www.ixl.com/math/algebra-1/graph-solutions-to-compound-inequalities)

**Absolute value equations and inequalities**

* L.1 [Solve absolute value equations](http://www.ixl.com/math/algebra-1/solve-absolute-value-equations)
* L.2 [Graph solutions to absolute value equations](http://www.ixl.com/math/algebra-1/graph-solutions-to-absolute-value-equations)
* L.3 [Solve absolute value inequalities](http://www.ixl.com/math/algebra-1/solve-absolute-value-inequalities)
* L.4 [Graph solutions to absolute value inequalities](http://www.ixl.com/math/algebra-1/solve-absolute-value-inequalities-and-graph-the-solution)

**Matrices**

* M.1 [Matrix vocabulary](http://www.ixl.com/math/algebra-1/matrix-vocabulary)
* M.2 [Matrix operation rules](http://www.ixl.com/math/algebra-1/matrix-operation-rules)
* M.3 [Add and subtract matrices](http://www.ixl.com/math/algebra-1/add-and-subtract-matrices)
* M.4 [Multiply a matrix by a scalar](http://www.ixl.com/math/algebra-1/multiply-a-matrix-by-a-scalar)
* M.5 [Multiply two matrices](http://www.ixl.com/math/algebra-1/multiply-two-matrices)

**Charts and graphs**

* N.1 [Interpret bar graphs, line graphs, and histograms](http://www.ixl.com/math/algebra-1/interpret-bar-graphs-line-graphs-and-histograms)
* N.2 [Create bar graphs, line graphs, and histograms](http://www.ixl.com/math/algebra-1/create-bar-graphs-line-graphs-and-histograms)
* N.3 [Circle graphs](http://www.ixl.com/math/algebra-1/circle-graphs)
* N.4 [Interpret stem-and-leaf plots](http://www.ixl.com/math/algebra-1/interpret-stem-and-leaf-plots)
* N.5 [Interpret box-and-whisker plots](http://www.ixl.com/math/algebra-1/interpret-box-and-whisker-plots)
* N.6 [Interpret a scatter plot](http://www.ixl.com/math/algebra-1/interpret-a-scatter-plot)
* N.7 [Scatter plots: line of best fit](http://www.ixl.com/math/algebra-1/scatter-plots-line-of-best-fit)

**Problem solving**

* O.1 [Word problems: mixed review](http://www.ixl.com/math/algebra-1/word-problems-mixed-review)
* O.2 [Word problems with money](http://www.ixl.com/math/algebra-1/word-problems-with-money)
* O.3 [Consecutive integer problems](http://www.ixl.com/math/algebra-1/consecutive-integer-problems)
* O.4 [Rate of travel: word problems](http://www.ixl.com/math/algebra-1/rate-of-travel-word-problems)
* O.5 [Weighted averages: word problems](http://www.ixl.com/math/algebra-1/weighted-averages-word-problems)

**Number sequences**

* P.1 [Identify arithmetic and geometric sequences](http://www.ixl.com/math/algebra-1/identify-arithmetic-and-geometric-sequences)
* P.2 [Arithmetic sequences](http://www.ixl.com/math/algebra-1/arithmetic-sequences)
* P.3 [Geometric sequences](http://www.ixl.com/math/algebra-1/geometric-sequences)
* P.4 [Evaluate variable expressions for number sequences](http://www.ixl.com/math/algebra-1/evaluate-variable-expressions-for-number-sequences)
* P.5 [Write variable expressions for arithmetic sequences](http://www.ixl.com/math/algebra-1/write-variable-expressions-for-arithmetic-sequences)
* P.6 [Write variable expressions for geometric sequences](http://www.ixl.com/math/algebra-1/write-variable-expressions-for-geometric-sequences)
* P.7 [Number sequences: mixed review](http://www.ixl.com/math/algebra-1/number-sequences-mixed-review)

**Relations and functions**

* Q.1 [Relations: convert between tables, graphs, mappings, and lists of points](http://www.ixl.com/math/algebra-1/relations-convert-between-tables-graphs-mappings-and-lists-of-points)
* Q.2 [Domain and range of relations](http://www.ixl.com/math/algebra-1/domain-and-range-of-relations)
* Q.3 [Identify independent and dependent variables](http://www.ixl.com/math/algebra-1/identify-independent-and-dependent-variables)
* Q.4 [Identify functions](http://www.ixl.com/math/algebra-1/identify-functions)
* Q.5 [Identify functions: vertical line test](http://www.ixl.com/math/algebra-1/identify-functions-vertical-line-test)
* Q.6 [Complete a function table](http://www.ixl.com/math/algebra-1/complete-a-function-table)
* Q.7 [Evaluate function rules I](http://www.ixl.com/math/algebra-1/evaluate-function-rules)
* Q.8 [Evaluate function rules II](http://www.ixl.com/math/algebra-1/evaluate-function-rules-ii)
* Q.9 [Graph a function](http://www.ixl.com/math/algebra-1/graph-a-function)
* Q.10 [Write a function rule: word problems](http://www.ixl.com/math/algebra-1/write-a-function-rule-word-problems)
* Q.11 [Find points on a function graph](http://www.ixl.com/math/algebra-1/find-points-on-a-function-graph)
* Q.12 [Write a rule for a function table](http://www.ixl.com/math/algebra-1/write-a-rule-for-a-function-table)

**Direct and inverse variation**

* R.1 [Identify proportional relationships](http://www.ixl.com/math/algebra-1/identify-proportional-relationships)
* R.2 [Find the constant of variation](http://www.ixl.com/math/algebra-1/find-the-constant-of-variation)
* R.3 [Graph a proportional relationship](http://www.ixl.com/math/algebra-1/graph-a-proportional-relationship)
* R.4 [Write direct variation equations](http://www.ixl.com/math/algebra-1/write-direct-variation-equations)
* R.5 [Write and solve direct variation equations](http://www.ixl.com/math/algebra-1/write-and-solve-direct-variation-equations)
* R.6 [Write inverse variation equations](http://www.ixl.com/math/algebra-1/write-inverse-variation-equations)
* R.7 [Write and solve inverse variation equations](http://www.ixl.com/math/algebra-1/write-and-solve-inverse-variation-equations)

**Linear functions**

* S.1 [Identify linear functions](http://www.ixl.com/math/algebra-1/identify-linear-functions)
* S.2 [Find the slope of a graph](http://www.ixl.com/math/algebra-1/find-the-slope-of-a-graph)
* S.3 [Find slope from two points](http://www.ixl.com/math/algebra-1/find-slope-from-two-points)
* S.4 [Slope-intercept form: find slope and y-intercept](http://www.ixl.com/math/algebra-1/slope-intercept-form-find-slope-and-y-intercept)
* S.5 [Slope-intercept form: graph an equation](http://www.ixl.com/math/algebra-1/slope-intercept-form-graph-an-equation)
* S.6 [Slope-intercept form: write an equation from a graph](http://www.ixl.com/math/algebra-1/slope-intercept-form-write-an-equation-from-a-graph)
* S.7 [Slope-intercept form: write an equation](http://www.ixl.com/math/algebra-1/slope-intercept-form-write-an-equation)
* S.8 [Linear function word problems](http://www.ixl.com/math/algebra-1/linear-function-word-problems)
* S.9 [Write equations in standard form](http://www.ixl.com/math/algebra-1/write-equations-in-standard-form)
* S.10 [Standard form: find x- and y-intercepts](http://www.ixl.com/math/algebra-1/standard-form-find-x-and-y-intercepts)
* S.11 [Standard form: graph an equation](http://www.ixl.com/math/algebra-1/standard-form-graph-an-equation)
* S.12 [Equations of horizontal and vertical lines](http://www.ixl.com/math/algebra-1/equations-of-horizontal-and-vertical-lines)
* S.13 [Graph a horizontal or vertical line](http://www.ixl.com/math/algebra-1/graph-a-horizontal-or-vertical-line)
* S.14 [Point-slope form: graph an equation](http://www.ixl.com/math/algebra-1/point-slope-form-graph-an-equation)
* S.15 [Point-slope form: write an equation from a graph](http://www.ixl.com/math/algebra-1/point-slope-form-write-an-equation-from-a-graph)
* S.16 [Point-slope form: write an equation](http://www.ixl.com/math/algebra-1/point-slope-form-write-an-equation)
* S.17 [Slopes of parallel and perpendicular lines](http://www.ixl.com/math/algebra-1/slopes-of-parallel-and-perpendicular-lines)
* S.18 [Write an equation for a parallel or perpendicular line](http://www.ixl.com/math/algebra-1/write-an-equation-for-a-parallel-or-perpendicular-line)

**Linear inequalities**

* T.1 [Does (x, y) satisfy the inequality?](http://www.ixl.com/math/algebra-1/does-x-y-satisfy-the-inequality)
* T.2 [Linear inequalities: solve for y](http://www.ixl.com/math/algebra-1/linear-inequalities-solve-for-y)
* T.3 [Graph a linear inequality in two variables](http://www.ixl.com/math/algebra-1/graph-a-linear-inequality-in-two-variables)
* T.4 [Linear inequalities: word problems](http://www.ixl.com/math/algebra-1/linear-inequalities-word-problems)
* T.5 [Is (x, y) a solution to the system of inequalities?](http://www.ixl.com/math/algebra-1/is-x-y-a-solution-to-the-system-of-inequalities)

**Systems of linear equations**

* U.1 [Is (x, y) a solution to the system of equations?](http://www.ixl.com/math/algebra-1/is-x-y-a-solution-to-the-system-of-equations)
* U.2 [Solve a system of equations by graphing](http://www.ixl.com/math/algebra-1/solve-a-system-of-equations-by-graphing)
* U.3 [Solve a system of equations by graphing: word problems](http://www.ixl.com/math/algebra-1/solve-a-system-of-equations-by-graphing-word-problems)
* U.4 [Find the number of solutions to a system of equations by graphing](http://www.ixl.com/math/algebra-1/find-the-number-of-solutions-to-a-system-of-equations-by-graphing)
* U.5 [Find the number of solutions to a system of equations](http://www.ixl.com/math/algebra-1/find-the-number-of-solutions-to-a-system-of-equations)
* U.6 [Classify a system of equations by graphing](http://www.ixl.com/math/algebra-1/classify-a-system-of-equations-by-graphing)
* U.7 [Classify a system of equations](http://www.ixl.com/math/algebra-1/classify-a-system-of-equations)
* U.8 [Solve a system of equations using substitution](http://www.ixl.com/math/algebra-1/solve-a-system-of-equations-using-substitution)
* U.9 [Solve a system of equations using substitution: word problems](http://www.ixl.com/math/algebra-1/solve-a-system-of-equations-using-substitution-word-problems)
* U.10 [Solve a system of equations using elimination](http://www.ixl.com/math/algebra-1/solve-a-system-of-equations-using-elimination)
* U.11 [Solve a system of equations using elimination: word problems](http://www.ixl.com/math/algebra-1/solve-a-system-of-equations-using-elimination-word-problems)
* U.12 [Solve a system of equations using augmented matrices](http://www.ixl.com/math/algebra-1/solve-a-system-of-equations-using-augmented-matrices)
* U.13 [Solve a system of equations using augmented matrices: word problems](http://www.ixl.com/math/algebra-1/solve-a-system-of-equations-using-augmented-matrices-word-problems)
* U.14 [Solve a system of equations using any method](http://www.ixl.com/math/algebra-1/solve-a-system-of-equations-using-any-method)
* U.15 [Solve a system of equations using any method: word problems](http://www.ixl.com/math/algebra-1/solve-a-system-of-equations-using-any-method-word-problems)

**Exponents**

* V.1 [Exponents with integer bases](http://www.ixl.com/math/algebra-1/exponents-with-integer-bases)
* V.2 [Exponents with decimal and fractional bases](http://www.ixl.com/math/algebra-1/exponents-with-decimal-and-fractional-bases)
* V.3 [Negative exponents](http://www.ixl.com/math/algebra-1/negative-exponents)
* V.4 [Multiplication with exponents](http://www.ixl.com/math/algebra-1/multiplication-with-exponents)
* V.5 [Division with exponents](http://www.ixl.com/math/algebra-1/division-with-exponents)
* V.6 [Multiplication and division with exponents](http://www.ixl.com/math/algebra-1/multiplication-and-division-with-exponents)
* V.7 [Power rule](http://www.ixl.com/math/algebra-1/power-rule)
* V.8 [Simplify expressions involving exponents](http://www.ixl.com/math/algebra-1/simplify-expressions-involving-exponents)

**Scientific notation**

* W.1 [Convert between standard and scientific notation](http://www.ixl.com/math/algebra-1/convert-between-standard-and-scientific-notation)
* W.2 [Compare numbers written in scientific notation](http://www.ixl.com/math/algebra-1/compare-numbers-written-in-scientific-notation)
* W.3 [Multiply numbers written in scientific notation](http://www.ixl.com/math/algebra-1/multiply-numbers-written-in-scientific-notation)
* W.4 [Divide numbers written in scientific notation](http://www.ixl.com/math/algebra-1/divide-numbers-written-in-scientific-notation)

**Exponential functions**

* X.1 [Evaluate an exponential function](http://www.ixl.com/math/algebra-1/evaluate-an-exponential-function)
* X.2 [Match exponential functions and graphs](http://www.ixl.com/math/algebra-1/match-exponential-functions-and-graphs)
* X.3 [Exponential growth and decay: word problems](http://www.ixl.com/math/algebra-1/exponential-growth-and-decay-word-problems)

**Monomials**

* Y.1 [Identify monomials](http://www.ixl.com/math/algebra-1/identify-monomials)
* Y.2 [Multiply monomials](http://www.ixl.com/math/algebra-1/multiply-monomials)
* Y.3 [Divide monomials](http://www.ixl.com/math/algebra-1/divide-monomials)
* Y.4 [Multiply and divide monomials](http://www.ixl.com/math/algebra-1/multiply-and-divide-monomials)
* Y.5 [Powers of monomials](http://www.ixl.com/math/algebra-1/powers-of-monomials)

**Polynomials**

* Z.1 [Polynomial vocabulary](http://www.ixl.com/math/algebra-1/polynomial-vocabulary)
* Z.2 [Model polynomials with algebra tiles](http://www.ixl.com/math/algebra-1/model-polynomials-with-algebra-tiles)
* Z.3 [Add and subtract polynomials using algebra tiles](http://www.ixl.com/math/algebra-1/add-and-subtract-polynomials-using-algebra-tiles)
* Z.4 [Add and subtract polynomials](http://www.ixl.com/math/algebra-1/add-and-subtract-polynomials)
* Z.5 [Add polynomials to find perimeter](http://www.ixl.com/math/algebra-1/add-polynomials-to-find-perimeter)
* Z.6 [Multiply a polynomial by a monomial](http://www.ixl.com/math/algebra-1/multiply-a-polynomial-by-a-monomial)
* Z.7 [Multiply two polynomials using algebra tiles](http://www.ixl.com/math/algebra-1/multiply-two-polynomials-using-algebra-tiles)
* Z.8 [Multiply two binomials](http://www.ixl.com/math/algebra-1/multiply-two-binomials)
* Z.9 [Multiply two binomials: special cases](http://www.ixl.com/math/algebra-1/multiply-two-binomials-special-cases)
* Z.10 [Multiply polynomials](http://www.ixl.com/math/algebra-1/multiply-polynomials)

**Factoring**

* AA.1 [GCF of monomials](http://www.ixl.com/math/algebra-1/gcf-of-monomials)
* AA.2 [Factor out a monomial](http://www.ixl.com/math/algebra-1/factor-out-a-monomial)
* AA.3 [Factor quadratics with leading coefficient 1](http://www.ixl.com/math/algebra-1/factor-quadratics-with-leading-coefficient-1)
* AA.4 [Factor quadratics with other leading coefficients](http://www.ixl.com/math/algebra-1/factor-quadratics-with-other-leading-coefficients)
* AA.5 [Factor quadratics: special cases](http://www.ixl.com/math/algebra-1/factor-quadratics-special-cases)
* AA.6 [Factor by grouping](http://www.ixl.com/math/algebra-1/factor-by-grouping)
* AA.7 [Factor polynomials](http://www.ixl.com/math/algebra-1/factor-polynomials)

**Quadratic equations**

* BB.1 [Characteristics of quadratic functions](http://www.ixl.com/math/algebra-1/characteristics-of-quadratic-functions)
* BB.2 [Solve a quadratic equation using square roots](http://www.ixl.com/math/algebra-1/solve-a-quadratic-equation-using-square-roots)
* BB.3 [Solve an equation using the zero product property](http://www.ixl.com/math/algebra-1/solve-an-equation-using-the-zero-product-property)
* BB.4 [Solve a quadratic equation by factoring](http://www.ixl.com/math/algebra-1/solve-a-quadratic-equation-by-factoring)
* BB.5 [Complete the square](http://www.ixl.com/math/algebra-1/complete-the-square)
* BB.6 [Solve a quadratic equation by completing the square](http://www.ixl.com/math/algebra-1/solve-a-quadratic-equation-by-completing-the-square)
* BB.7 [Solve a quadratic equation using the quadratic formula](http://www.ixl.com/math/algebra-1/solve-a-quadratic-equation-using-the-quadratic-formula)
* BB.8 [Using the discriminant](http://www.ixl.com/math/algebra-1/using-the-discriminant)

**Functions: linear, quadratic, exponential**

* CC.1 [Identify linear, quadratic, and exponential functions from graphs](http://www.ixl.com/math/algebra-1/identify-linear%2C-quadratic%2C-and-exponential-functions-from-graphs)
* CC.2 [Identify linear, quadratic, and exponential functions from tables](http://www.ixl.com/math/algebra-1/identify-linear-quadratic-and-exponential-functions-from-tables)
* CC.3 [Write linear, quadratic, and exponential functions](http://www.ixl.com/math/algebra-1/write-linear-quadratic-and-exponential-functions)

**Absolute value functions**

* DD.1 [Complete a function table: absolute value functions](http://www.ixl.com/math/algebra-1/complete-a-function-table-absolute-value-functions)
* DD.2 [Domain and range of absolute value functions](http://www.ixl.com/math/algebra-1/domain-and-range-of-absolute-value-functions)

**Radical expressions**

* EE.1 [Simplify radical expressions](http://www.ixl.com/math/algebra-1/simplify-radical-expressions)
* EE.2 [Simplify radical expressions by rationalizing the denominator](http://www.ixl.com/math/algebra-1/simplify-radical-expressions-by-rationalizing-the-denominator)
* EE.3 [Multiply radical expressions](http://www.ixl.com/math/algebra-1/multiply-radical-expressions)
* EE.4 [Add and subtract radical expressions](http://www.ixl.com/math/algebra-1/add-and-subtract-radical-expressions)
* EE.5 [Simplify radical expressions using the distributive property](http://www.ixl.com/math/algebra-1/simplify-radical-expressions-using-the-distributive-property)
* EE.6 [Simplify radical expressions: mixed review](http://www.ixl.com/math/algebra-1/simplify-radical-expressions-mixed-review)

**Radical functions and equations**

* FF.1 [Evaluate a radical function](http://www.ixl.com/math/algebra-1/evaluate-a-radical-function)
* FF.2 [Domain and range of radical functions](http://www.ixl.com/math/algebra-1/domain-and-range-of-radical-functions)
* FF.3 [Solve radical equations I](http://www.ixl.com/math/algebra-1/solve-radical-equations)
* FF.4 [Solve radical equations II](http://www.ixl.com/math/algebra-1/solve-radical-equations-ii)

**Rational functions and expressions**

* GG.1 [Rational functions: asymptotes and excluded values](http://www.ixl.com/math/algebra-1/rational-functions-asymptotes-and-excluded-values)
* GG.2 [Simplify complex fractions](http://www.ixl.com/math/algebra-1/simplify-complex-fractions)
* GG.3 [Simplify rational expressions](http://www.ixl.com/math/algebra-1/simplify-rational-expressions)
* GG.4 [Multiply and divide rational expressions](http://www.ixl.com/math/algebra-1/multiply-and-divide-rational-expressions)
* GG.5 [Divide polynomials](http://www.ixl.com/math/algebra-1/divide-polynomials)
* GG.6 [Add and subtract rational expressions](http://www.ixl.com/math/algebra-1/add-and-subtract-rational-expressions)
* GG.7 [Solve rational equations](http://www.ixl.com/math/algebra-1/solve-rational-equations)

**Logic**

* HH.1 [Identify hypotheses and conclusions](http://www.ixl.com/math/algebra-1/identify-hypotheses-and-conclusions)
* HH.2 [Counterexamples](http://www.ixl.com/math/algebra-1/counterexamples)

**Probability**

* II.1 [Theoretical probability](http://www.ixl.com/math/algebra-1/theoretical-probability)
* II.2 [Experimental probability](http://www.ixl.com/math/algebra-1/experimental-probability)
* II.3 [Compound events: find the number of outcomes](http://www.ixl.com/math/algebra-1/compound-events-find-the-number-of-outcomes)
* II.4 [Identify independent and dependent events](http://www.ixl.com/math/algebra-1/identify-independent-and-dependent-events)
* II.5 [Probability of independent and dependent events](http://www.ixl.com/math/algebra-1/probability-of-independent-and-dependent-events)
* II.6 [Permutations](http://www.ixl.com/math/algebra-1/permutations)
* II.7 [Combinations](http://www.ixl.com/math/algebra-1/combinations)
* II.8 [Permutation and combination notation](http://www.ixl.com/math/algebra-1/permutation-and-combination-notation)

**Statistics**

* JJ.1 [Mean, median, mode, and range](http://www.ixl.com/math/algebra-1/mean-median-mode-and-range)
* JJ.2 [Quartiles](http://www.ixl.com/math/algebra-1/quartiles)
* JJ.3 [Identifying biased samples](http://www.ixl.com/math/algebra-1/identifying-biased-samples)
* JJ.4 [Mean absolute deviation](http://www.ixl.com/math/algebra-1/mean-absolute-deviation)
* JJ.5 [Variance and standard deviation](http://www.ixl.com/math/algebra-1/variance-and-standard-deviation)