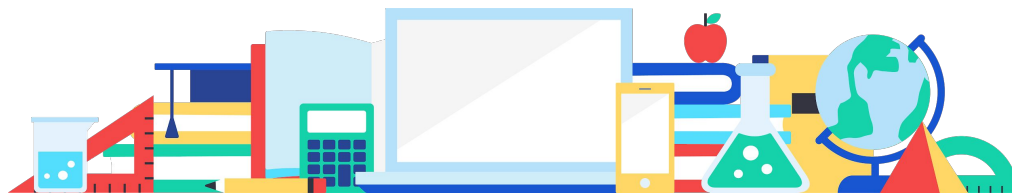




Algebra Topics & Resources

Updated January 2020



Key Topics

Key Topics Covered in Algebra

- Graphing
 - ◆ Cartesian coordinate system
 - ◆ Slope & slope-intercept form
 - ◆ Common graphs
- Linear Equations
 - ◆ One-step equations
 - ◆ Multi-step equations
- Systems of Equations
 - ◆ Substitution method
 - ◆ Elimination method
- Inequalities
 - ◆ Graphing inequalities
 - ◆ Solving inequalities
- Functions
 - ◆ Graphing functions
 - ◆ Operations on functions
 - ◆ Inverse functions
- Absolute Value & Piecewise Functions
- Exponents & Exponential Functions
 - ◆ Exponential growth & decay
 - ◆ Logarithms
- Polynomials
 - ◆ Arithmetic with polynomials
 - ◆ Factoring polynomials
- Quadratic Equations
 - ◆ Factoring quadratics
 - ◆ Parabolas
 - ◆ Quadratic formula
- Complex Numbers
 - ◆ Arithmetic with complex numbers
 - ◆ Complex conjugates

Algebra

Additional Resources

- <https://www.khanacademy.org/math/algebra>
- <https://www.khanacademy.org/math/algebra2>
- <https://www.sparknotes.com/math/>
- <https://www.mathplanet.com/education/algebra-1>
- <http://web.mit.edu/jorloff/www/18.01a-esg/OCWAlgebra.pdf>
- http://www.wallace.ccfaculty.org/book/Beginning_and_Intermediate_Algebra.pdf