

Math Placement Test Preparation Resources

When reviewing resources at the following websites, keep in mind specific course content. The Accuplacer Arithmetic test is used to determine the Prealgebra skills that students have. The Accuplacer Algebra test is used to determine the level of Elementary or Intermediate Algebra skills that students have. The Accuplacer College Math test is used to determine the level of higher algebra and precalculus skills that students have.

Pre-college level:

- MAT0300/0400 Prealgebra: integers, real numbers, fractions, decimals, percents, and ratios and proportions
- MAT0500 Elementary Algebra: solving linear equations and inequalities, graphing and Cartesian coordinates, slope of a line, slope-intercept and point-slope forms of a line, basic rules of exponents, polynomial arithmetic, and unit analysis/measurement
- MAT0600 Intermediate Algebra: polynomial arithmetic, factoring, rational and radical equations and expressions, properties of rational exponents, solutions to quadratic equations, and unit analysis/measurement.

College level:

- MAT1590 College Algebra and Trig: one-to-one functions and inverse functions and graphs, polynomial and rational functions and their applications, radicals and exponents, complex numbers, and trigonometric functions, including graphs and basic identities
- MAT1600 Precalculus: Algebra topics include rational and polynomial functions. Trigonometry topics include graphs, identities, half and double-angle formulas, and inverse trig functions. Other topics include exponential and logarithmic functions, and an introduction to limits.

A guide for reading, writing, and mathematics placement, created by Dale Yerbe and available on the JCC website: <http://sunyjcc.libguides.com/content.php?pid=325553&sid=2665348>

Free video tutorials on algebra topics from the XYZ Textbook company: www.mathtv.com (individual videos are free; other features such as playlists may require an account)

Free math lessons and games: www.coolmath.com

Free math lessons, videos, and practice problems: <https://www.khanacademy.org/math>

Some free math lessons and practice problems: <http://www.purplemath.com/>