



Mathematics Concepts/Applications: Rio Salado College

(For a list of materials used in the course, please see http://www.theNCAT.org/R2R/AcadPrac/CM/Rio_MathCon_Mat.pdf.)

Mathematics Concepts/Applications is a one-semester, three-credit course that covers the following topics:

Whole Numbers

- Whole Numbers I
 - Adding and Subtracting
 - Multiplying and Dividing
 - Rounding and Divisibility
- Whole Numbers II
 - Exponential Notations
 - Order of Operations

Proportional Reasoning I

- Fractions I
 - Equivalent Fractions
 - Multiplying and Dividing
- Fractions II
 - Common Denominators
 - Adding and Subtracting
- Decimals I
 - Notation
 - Converting
- Decimals II
 - Adding and Subtracting
 - Multiplying and Dividing

Proportional Reasoning II

- Ratio and Proportion
 - Ratios
 - Proportions
- Percent
 - Definition
 - Converting
 - Solving Percent Problems

Signed Numbers

- Signed Numbers I
 - Adding
 - Subtracting
- Signed Numbers II
 - Multiplying and Dividing
 - Combining Operations

Geometry

- Geometry I
 - Geometric Figures
- Geometry II
 - Perimeter and Area
 - Surface Area and Volume
- Geometry III
 - Triangles and Parallelograms
 - Similar Polygons

Interpreting Data

- Units of Measurement
 - US/English Units
 - The Metric System
- Interpreting Graphs
 - Data and Graphs
- Introduction to Statistics
 - Statistical Measures

Real Numbers

- The Real Numbers
 - Number Line and Notation
- Factoring and Fractions
 - The GCF and LCM
 - Fractions
- Arithmetic of Numbers
 - Operations on Numbers

Solving Linear Equations

- Algebraic Expressions
 - Simplifying Expressions
- Solving Linear Equations
 - Solving Equations I
 - Solving Equations II
- Problem Solving
 - Number and Age
 - Geometry
- Linear Inequalities
 - Solving Inequalities