

Math 8

COURSE DESCRIPTION:

Students will learn 8th grade math topics outlined in this course drawing from a variety of sources, including hands on activities, interactive lessons, and practical math applications.

PREREQUISITES: None

COURSE LENGTH: Two semesters

REQUIRED TEXT: None

COURSE OUTLINE:

Algebra Concepts: Linear Functions and Graphing

- Relations and Functions
- Slope and Y-intercept
- Writing Rules for Linear Function
- Scatter Plots
- Graphing Equations of Lines
- Graphing Linear Inequalities

Geometry

- Constructions
- Angles Relationships
- Polygons
- Congruence and Reasoning
- Circles and Pi
- Translations
- Symmetry
- Reflections and Rotations

Measurement

- Area of Parallelograms
- Area of Parallelograms and Real World

Applications

- Area of Circles
- Space Figures
- Surface of Area I
- Surface Area and Real World Applications
- Volume I
- Volume and Real World Applications

Trigonometry Concepts

- Comparing and Ordering Rational and Irrational Numbers
- Square Roots and Irrational Numbers
- Pythagorean Theorem
- Writing a Proportion
- Special Right Triangles

Probability and Statistics

- Frequency Tables and Line Plots
- Stem and Leaf Plots
- Box and Whisker Plots
- Theoretical Probability
- Independent and Dependent Variables
- Counting Theory
- Experimental Probability
- Sampling and Surveys
- Simulations