

Math 7

COURSE DESCRIPTION:

Students will learn 7th 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:

Numbers and Operations

- Express Numbers in Equivalent Forms
- Use operations
- Compute accurately and fluently and make reasonable estimates

Measurements

- Demonstrate an understanding of measurable attributes of objects and figures, and the units, systems and processes of measurement
- Apply appropriate techniques, tools, and formulas to determine measurements

Geometry

- Analyze characteristics and properties of two- and three-dimensional geometric shapes and demonstrate understanding of geometric relationships
- Identify and/or apply concepts of transformations or symmetry
- Locate points or describe relationships using the coordinate plane
- Constructions

Algebraic Concepts

- Demonstrate an understanding of patterns, relations and functions
- Represent and/or analyze mathematical situations using numbers, symbols, words, tables and/or graphs
- Analyze change in various contexts
- Describe or use models to represent quantitative relationships

Data Analysis & Probability

- Formulate or answer questions that can be addressed with data and/or organize, display, interpret or analyze data
- Select and/or use appropriate statistical methods to analyze data
- Understand and/or apply basic concepts of probability or outcomes
- Develop and/or evaluate inferences and predictions or draw conclusions based on data or data displays