

MATH: WASL Refresher Math

COURSE DESCRIPTION: Students will build mathematical skills that allow students to solve problems and reason logically. Students will be able to communicate their understanding by organizing, clarifying, and refining mathematical information for a given purpose; students will use everyday and mathematical language and notation in appropriate and efficient forms to clearly express or represent complex ideas and information.

COURSE OBJECTIVES: Upon completion of this course students will be able to:

- Demonstrate an understanding of pre-algebraic concepts
- Effectively demonstrate key algebraic concepts, such as solving inequalities and writing expressions
- Develop an understanding of fundamental geometric concepts, such as angles and lines
- Understand key concepts of probability and statistics

PREREQUISITES: Algebra 1

COURSE LENGTH: Two semesters, or one block

REQUIRED TEXT: None

COURSE OUTLINE:

Semester 1:

Number Sense

1. Single-step Estimation
2. Whole Numbers
3. Integers
4. Fractions & Decimals
5. Exponents & square roots
6. Rational Numbers

Operations

1. Scientific Notation
2. Order of Operations
3. Estimation
4. Ratio, Percent & Proportion
5. Number Sense Problem Solving

Algebraic Sense

1. Intro to Algebraic Expressions
2. Patterns in Algebra
3. Solving single-step equations
4. Solving two-step equations
5. Solving & Writing Inequalities
6. Graphing Inequalities
7. Systems of Equations



Probability Intro

1. Probability
2. Experimental Probability
3. Measures of Central Tendencies

Semester 2:

Geometric Figures

1. Points, Lines & the Plane
2. Geometric Figures
3. Angles
4. Parallel & Perpendicular Lines
5. Triangles
6. Prisms & Pyramids

Geometric Movements

1. The Cartesian Plane
2. Transformations
3. Geometric Problem Solving

Measurement

1. Metric Measurement
2. Customary Measurement
3. Length, Mass, Capacity
4. Perimeter
5. Area
6. Volume
7. Time

Probability 2

1. Permutations
2. Combinations
3. Data