

Course Title: Algebra 1 Skills Sharpener

Dates: July 13-24

Time: 10am daily (weekdays)

(This course is for incoming Algebra 1 students)

Prepare yourself for next year by sharpening the skills you'll need for success in Algebra 1. We will review and tackle the nuts and bolts of three major topics: number properties and facts, pre-algebra computational skills, and problem-solving skills. Students will start the course with a short diagnostic assessment, and the course will be adapted to skills students need most to start their year in Algebra 1 strong. Below is a list of topics this course may include, the exact focus will be determined by student need.

- Number properties and facts
 - Prime numbers and composite numbers
 - Factors and Multiples
 - Perfect squares
 - Divisibility rules
 - Estimating and rounding
 - Integers
 - Fractions
 - Decimals
 - Percents
 - Convert decimals to fractions to percents
 - Exponents
 - Order of operations
 - Distributive Property
 - Operations with signed numbers
 - Ratios
- Simple algebraic skills
 - Expressions
 - Absolute Value
 - Combine like terms
 - Evaluate expressions
 - Solve basic one and two step equations
 - Proportions
 - Translating verbal expressions to algebraic expressions
 - Estimating Identifying coordinates on a coordinate plane
- Problem solving strategies
 - Drawing diagrams
 - Try, check, revise
 - Looking for patterns
 - Making tables
 - Logical reasoning
 - Working backward

Course Title: Algebra 2 Skills Sharpener

Dates: July 13-24

Time: 11am daily (weekdays)

(This course is for incoming Algebra 2 students)

Prepare yourself for next year by sharpening the skills you'll need for success in Algebra 2. We will review and tackle the nuts and bolts of the topics listed below. Students will start the course with a short diagnostic assessment, and the course will be adapted to skills students need most to start their year in Algebra 2 strong.

- Percents and Percent Applications
- Operations with Fractions
- Ratios and Proportions
- Simplifying expressions
- Evaluating formulas
- Solving general equations
- Area and Volume review
- Graphing on the coordinate plane
- Slope
- Midpoints
- Solving linear equations and inequalities
- Absolute value equations and inequalities
- Operations with exponents
- Polynomial operations
- Operations with radicals
- Pythagorean theorem
- Operations with rational expressions