

# **Pre-Calculus Course Outline**

**Teacher:** Mr. Jason Wan

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## **Course description**

This course provides a detailed examination of algebraic and inverse functions, graphs, exponential and logarithmic functions, conic sections, matrices, determinants, complex numbers, and discrete algebra. The second half of this course involves a thorough discussion of trigonometric concepts and applications. Students study proofs of trigonometric identities, solutions of right and oblique triangles, solutions of trigonometric equations and functions, vector applications and polar coordinates.

## **Grading**

Quizzes	20%
Daily work	25%
Projects	25%
Progress Tests	30%

## **Class Materials**

Pencils

Ruler

Notebook

Eraser

Calculator (TI 84)

Graph paper

# **Pre-Algebra Course Outline**

**Teacher:** Mr. Jason Wan

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## **Course description**

*Pre-Algebra* is a course designed to give students a solid introduction to algebraic expressions and integers, decimals, factors, exponents, fractions, ratios, and percents. Students will learn how to solve equations, convert units in the metric system, and use reason to justify the steps for solving various problems. The goal of this course is to refresh the mathematical skills students already have (even if they may not realize they have them), challenge their minds to learn more difficult material, and build new mathematical knowledge through problem solving.

Topics include algebraic expressions, equations, fractions, ratios, and percents.

Students may be assessed according to the following criteria:

Quizzes
Daily work
Projects
Progress Tests

## **Class Materials**

Pencils

Ruler

Notebook

Eraser

Calculator

Graph paper