Tokyo International Progressive School
Grade 9 Algebra 1 Course Outline
2022-2023
Jason Wan, Room 25

DESCRIPTION OF COURSE

Algebra 1 is a course designed to help students understand the meaning of variables and how we use them to represent numbers. Students will learn how to solve equations and inequalities with one or two variables, how to graph equations, and understand the relationship between a graph and its equation. Most importantly, this course will give students a basic understanding of algebra: how numbers and variables work together. The goal of this course is to refresh the algebra 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 rational numbers, solving equations and inequalities, factoring polynomials, and systems of equations and inequalities. The title of the textbook used for this course is *Algebra 1*.

STUDENT EXPECTATIONS

Students need to bring **pencils, a ruler, an eraser, a calculator, and a notebook** to class.

At the beginning of the school year, you will be issued a textbook. If this textbook is not returned in usable condition by the required date, your family will be asked to pay for a replacement.

Work that is submitted late will be penalized 2% per workday.

Quizzes will be given at the end of every week. Projects will be due before each progress test.

To encourage learning from one's mistakes, students have the opportunity to fix mistakes on tests. For each corrected mistake, students may earn half a point.

No food is allowed in the classroom. Students are permitted to bring closed containers of water to the classroom.

EARNING YOUR GRADE

Your grade will be determined by your work in these categories:

Grade Category	Percentage of your grade
Quiz	20%
Daily Work	30%
Project	30%
Test	20%

The grading scale for this course will be:

Letter grade	Mark range
A+	98-100
A	93-97
B+	90-92
B	85-89
C+	82-84
C	77-81
D+	74-76
D	70-73
F	69 or below

IMPORTANT DATES

Dates are subject to change.

Assessment	Date
Math Skills Review Test	September 2
Chapter 1 progress test – Variables, Function Patterns, and Graphs	September 21
Chapter 2 progress test – Rational Numbers	October 7
Chapter 3 progress test – Solving Equations	October 28
Chapter 4 progress test – Solving Inequalities	November 9
Chapter 5 progress test – Graphs and Functions	November 25
Chapter 6 progress test – Linear Equations and Their Graphs	December 15
Chapter 7 progress test – Systems of Equations and Inequalities	January 27
Chapter 8 progress test – Exponents and Exponential Functions	February 17
Chapter 9 progress test – Polynomials and Factoring	March 10
Chapter 10 progress test – Quadratic Equations and Functions	March 30
Chapter 11 progress test – Radical Expressions and Equations	April 14
Chapter 12 progress test – Rational Expressions and Functions	May 12

| Review Test | June 9 |