the school for International Studies

JILLIAN JUMAN,
PRINCIPAL

IB MYP Mathematics, Year 3
8th Grade Algebra I

Description
This course will start off with topics from the 8th grade NYS mathematics curriculum: (1) formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations; (2) grasping the concept of a function and using functions to describe quantitative relationships; (3) analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem. Algebra I topics include nonlinear functions, including quadratic and exponential relationships. The expectation for this class is that every student works hard and that every student succeeds.

CCLS Major Emphasis Clusters
Expressions, Equations and Inequalities
- Work with radicals and integer exponents
- Perform arithmetic operations on polynomials
- Create equations that describe number of relationships
- Solve equations and inequalities in one variable
- Represent and solve equations and inequalities graphically

Functions
- Define, evaluate, and compare functions

Geometry
- Understand congruence and similarity

Interpreting Categorical and Quantitative Data
- Interpret linear models

Course Units

Semester 1:
Unit 1: Exponents and Scientific Notation
Unit 2: Congruence
Unit 3: Similarity

Semester 2:
Unit 4: Linear Equations
Unit 5: Linear Statistics
Unit 6: Nonlinear Functions

Assessment
Students' academic progress will be assessed in a variety of ways. Formative assessments, such as quizzes, homework and class work (both individual and group work) will be worth 40% of the overall grade. The remaining 60% will consist of summative assessments (unit projects and unit exams).

Ms. Padovano's Contact Information
Feel free to schedule an appointment for extra support.
Theresa.Padovano@K497.org / Room 126