



## Mathematics 2: Integrated Pathway

Ms. Vanessa Shintaku  
vanessa-shintaku@scusd.edu  
916-395-5090 Ext. 506213  
C-213

### COURSE DESCRIPTION:

Students must pass 1<sup>st</sup> and 2<sup>nd</sup> semester of Mathematics 2, with a “D” or better, as a part of John F. Kennedy High School’s graduation requirements. In Mathematics 2, students will learn about equations and inequalities, linear functions and systems, introduction to parent functions and transformations, solving quadratics and complex numbers, polynomial functions, radical functions, geometry basics, logic and proof, parallel and perpendicular lines, congruent triangles, relationships in triangles, and similar triangles.

### COURSE OUTLINE:

Students will learn and practice the foundational skills of each course objective through scaffolded lessons, visual, auditory, and kinesthetic methods and activities, real life examples, small-groups settings, peer tutoring and collaboration, and one-to-one support.

### COURSE OBJECTIVES:

Upon completion of this course, students will be able to:

1. Solve quadratic equations in one variable.
2. Interpret key features (x- and y-intercepts; intervals where the function is increasing and decreasing, relative maximums and minimums; and symmetries) of a quadratic function that models a relationship between two quantities.
3. Graph quadratic functions and show intercepts and maxima/minima.
4. Solve a simple system consisting of a linear equation and a quadratic equation in two variables.

### TEXTBOOK:

Common Core State Standards: Mathematics 2 Integrated Pathways

### REQUIRED MATERIALS:

**Pencil** – Students must come to class prepared with a pencil. Students are NOT to use pens, colored pencils, markers, etc. If a student does not come to class with a pencil, they may check one out for the class period. It must be returned before they leave for their next class.

**Folder** – Students will be provided with a folder that will be kept in the classroom. On the left side of the folder, students will store all GRADED work. On the right side of the folder, students will store all UNGRADED work.

\*All other materials such as markers, paper, rulers, calculators, highlighters, colored pencils, etc. will be provided in class. These materials must be returned in the same condition that they were found in. Students who misuse, break, or vandalize these materials will lose their privilege of using them and must be responsible for providing their own materials.

**ACADEMIC EXPECTATIONS:**

All members of the classroom will be expected to:

1. Come to class on time and prepared to put forth their best effort.
2. Be respectful to ourselves, others, and the community.
3. Positively contribute to the learning environment.

**Attendance:** Attendance is VERY important. Students are expected to come to class every day. If a student is absent, a parent/guardian must excuse their absence(s) via email, phone, or note through the Attendance Office. The student will be responsible for making up the work that they missed before the end of the quarter. Students are also expected to come to class on time, meaning they are seating and starting their “Warm Up” when the bell rings. If a student is late, they will be expected to retrieve a Tardy Pass from a campus monitor before entering the classroom. Upon receipt of a Tardy Pass, the student will be marked “Present.” If students fail to retrieve a Tardy Pass, they will be marked “Late.”

**Warm Ups/Classwork/Homework:** Students are required to complete warm up at the beginning of each class. Students will not be assigned homework. Students will be given time to complete all coursework during class time. If a student does not complete their classwork, it becomes work that must be completed on their own time. They may schedule an appointment before school, during lunch, or after school with Ms. Shintaku, if they need additional assistance or tutoring.

**Quizzes/Tests:** Students will be tested three times per quarter. They will take unit quizzes to measure progress and an end-of-quarter test to determine whether they were able to meet the “Course Objectives.” Students will be allowed to use all notes, coursework, and a calculator during each quiz or test. If a student is absent on a quiz or test day, they are responsible for scheduling a time to make it up before school, during lunch, or after school.

**GRADING POLICY:**

Warm Ups	10%
Classwork	40%
Independent Work	30%
Tests and Quizzes	20%