



## 2021-2022 COURSE SYLLABUS

**Integrated Mathematics 2 (Two semesters; 5 units each semester; 10 units total).** Math 2 continues students' study of topics from algebra, geometry, and statistics by using real-world situations and finding mathematical connections and solutions. Students will apply multiple forms of mathematical relationships to approach exercises in different ways. These include graphic, algebraic, numeric, tabular, and verbal representations of relationships. The new Common Core State Standards (CCSS) call on students to practice applying mathematical ways of thinking to real world issues, prepare students to think and reason mathematically, and emphasize mathematical modeling.

This program includes the most critical topics addressed in the CCSS Integrated Pathway: Mathematics 2 content map. Because of the pandemic, the list of topics has been prioritized to focus on what helps students most effectively continue their growth in mathematics.

- Extend the laws of exponents to rational exponents
- Compare key characteristics of quadratic functions with those of linear and exponential functions
- Create and solve equations and inequalities involving linear, exponential, and quadratic expressions
- Extend work with probability
- Establish criteria for similarity of triangles based on dilations and proportional reasoning

**Teacher:** Vicki Feliz-Smith (Room B-14)

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**Textbook:** Common Core State Standards, Mathematics II, Integrated Pathway Walch

To access the textbook, sign on to [Clever.com](https://www.clever.com) using the student's school account. Log in with Google. Click the icon that says Curriculum Engine. Find the text for Math 2. Math 2. Workbooks will be distributed at JFK.



Curriculum  
Engine

### Required Materials:

Notebook or binder with paper to do your work and to keep it organized.

Graph paper templates will be available on Google Classroom.

Straightedge for drawing straight lines.

Scientific Calculator which can be on a phone or downloaded free, but it is a small investment.

Pencils for writing your work. Colored pencils or pens are nice too, but not required.

Computer because your work will be submitted on Google Classroom.

**Grading Policy:** Grades are based on mastery, which will be determined by assessments, both written and oral, formative and summative. Regular practice will help students perfect the skills needed to master concepts. Participation in class is the most recommended, but if that is not possible, students are expected to communicate with the teacher as soon as possible. Progressing grade reports are available on [scusd.edu](https://scusd.edu) in Infinite Campus, but assignment submission will be through Google Classroom. The math department complies with district protocol, viewable at [scusd.edu](https://scusd.edu).



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## GRADING SCALE

89.5 to 100%	A
79.5 to < 89.5%	B
69.5 to < 79.5%	C
59.5 to < 69.5%	D
50 to < 59.5%	F

Category grades are weighted below:

65% Assessments (Tests, Quizzes, Recorded Oral Presentations, and some Projects)

35% Assignments (Practice, some Projects, Class Activities, Warm-ups, and Exit Slips)

**LATE SUBMISSION OR RESUBMISSION:** It is the student's responsibility to find out what assignments, activities, and notes were missed and make up that work promptly. There is no penalty for late submission or resubmission if it is completed within two weeks of assignment due date. After that time, 50% of the grade will be given. Quizzes can be redone if and only if the student actively participates in the next tutoring session.

## Course Objectives :

Students will acquire and demonstrate knowledge of the concepts, definitions and properties required to meet the Integrated Mathematics 2 standards. Students will develop critical thinking and decision-making skills by connecting concepts to practical applications needed to be productive members of society. All students are expected to demonstrate the following objectives:

- Students should be able to work with functions represented in a variety of ways: graphical, numerical, analytical, or verbal.
- Students should understand the connections among these representations.
- Students should be able to communicate mathematics both orally and in well-written sentences and should be able to explain solutions to problems.
- Students should be able to model a written description of a physical situation with a function.
- Students should be able to handle a faster and more rigorous curriculum with an expectation of higher-level thinking.
- Students should be able to use technology (scientific calculators and graphing software) to help solve problems, experiment, interpret results, and verify conclusions.
- Students should be able to determine the validity of solutions, including sign, size, relative accuracy, and units of measurement.

## Academic Expectations:

- Attendance – Have good attendance whenever possible. If you must be absent for an extended period of time, contact me and check Google Classroom.
- Work Ethic – You may need to work both individually and with a group and participate enthusiastically and constructively.
- Prepare for class- Do all assigned work on time for upcoming class discussions and activities. Also, check your tech, appearance, and background for being in virtual class.



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**Academic Dishonesty:** Academic dishonesty is considered a serious offense in any class. Students cheating will receive a zero grade for that assignment. I encourage collaboration on all practice assignments but I expect the work you submit (assignments, projects, exam/quiz, etc.) to be your own.

**Behavioral Expectations** (See [JFK Student Handbook](#) for details.):

**CLASSROOM RULES:** The following few rules guide classroom behavior and activity.

- Masks will be worn at all times during class. They are available at the front of the room.
- Because of masks, it is hard to understand speakers. Ask for clarification, and kindly give it when you are asked.
- Students will sit in their assigned seats during class unless otherwise instructed.
- There will be no eating or drinking in the classroom. If you need to eat or drink during class, you must get a pass and go outside.
- If you need a pass, you will need to fill one out, and show it to me before you leave.
- Respect the speaker, whether it is the teacher, a student, or someone else.

**ELECTRONIC DEVICES:** Please use your electronic devices to support your learning and have the good judgment not to use them for other purposes during class.

Extra Help: There will be tutoring available after school most days.