JOHN F. KENNEDY HIGH SCHOOL
COURSE SYLLABUS
DEPARTMENT OF MATHEMATICS

1.	**COURSE NUMBER, TITLE, UNITS AND PRINCIPAL/DEPARTMENT APPROVED DESCRIPTION**
	Math 1 (Two semesters; 5 units each semester; 10 units total)
2.	**GENERAL INFORMATION**

	Term and year:	2018-19
	Instructor:	M. Sault
	Class Room:	C 312
	E-mail address & Phone:	Martha-Sault@scusd.edu (916) 395-5090 x506312

3.	**TEXTBOOKS AND/OR RECOMMENDED OR REQUIRED READINGS**
	Integrated Math I, Walch Education, Portland, ME; 2017) Student Resource Book (Textbook) and 6 Work Books **Workbooks** are used for homework and in-class note taking.
4.	**GENERAL OVERVIEW**

The fundamental purpose of Mathematics I, is to formalize and extend students' understanding of linear functions and their applications.
This particular course uses a common core approach to learning. Students will be introduced to standards for mathematical practice. The following year, students will continue on to Math 2, which will contain more advanced topics in Algebra, Geometry and Statistics. Math 1 and Math 2 will complete a minimum high school graduation requirement in the study of mathematics. However, most students aim to continue on with Math 3 and further math courses in preparation for college.

Brief reviews will be given before a unit is learned, however, it is expected that students take responsibility for attending support classes after school to get more proficient at any of the math skills in which they are not as fluent.

For the Algebra portion of this course, topics include simplifying expressions, evaluating and solving equations and inequalities, and graphing linear and exponential functions and relations. Real world applications are presented within the course content and a function's approach is emphasized. For the Geometry portion, topics include transformational geometry, congruence and constructions

5.	**COURSE OBJECTIVES**
	The following sequence by resource book chapter identifies the major units making up the Math 1curriculum. Unit 1　　Relationships Between Quantities Unit 2　　Linear and Exponential Relationships Unit 3　　Reasoning With Equations Unit 4　　Descriptive Statistics Unit 5　　Congruence, Proof and Constructions Unit 6　　Connecting Algebra and Geometry Through Coordinates Students will acquire and demonstrate knowledge of the concepts, definitions and properties required to meet the Math 1 Common Core Mathematics 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 real-world situation with a function. • Students should be able to use technology (calculators, applets, Excel) 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.
6.	**COURSE REQUIREMENTS, ATTENDANCE AND SPECIFIC GRADING POLICY**
	Grades are based on demonstrated mastery of concepts and development of skills, not effort or potential. *A major component of your grade is determined by your results on assessments.* Progress reports are available on the District Web site in Infinite Campus. Assignments are a guide as to what is most important and what will be tested. Assignments are given daily. *Students not actively engaged in assignments and study will most likely fail the class.* Plan 30 minutes of study time daily. The math dept. complies with district protocol that can be viewed at www.scusd.edu.
7.	**DESCRIPTION OF MAJOR ACTIVITIES/EXERCISES/PROJECTS**

	Instructional Strategies and Activities Include: · Lecture on concepts and techniques · Presentation/modeling of examples and strategies · Large and small group discussions and explorations · Reading and writing assignments · Practice and learning through classwork and daily assignments · Applications to demonstrate relevance and extend learning · Active student engagement in group work and discussions · Quizzes, and tests to encourage and monitor learning
8.	**GENERAL STATEMENTS**

CLASSROOM BEHAVIOR EXPECTATIONS: The following summarize important expectations for classroom behavior.

- Students are expected to attend class every day.
- Students are expected to complete all assignments on time.
- Students are expected to be seated and prepared for learning when the bell rings.
- Students are expected to treat their classmates with respect; no put downs of any kind.
- Students are expected to actively and positively participate in class.
- Students are expected to demonstrate personal responsibility, honesty, and integrity in all of their actions.

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

- Follow teacher directions and requests immediately.
- Keep your hands, feet, and other objects to yourself.
- Remain seated unless you have permission to move about the classroom.
- Eating (food, candy, etc.) and gum chewing are not permitted in the classroom.

ELECTRONIC DEVICES: Electronics (music devices, cell phones, etc.) are to be **turned completely off and away**.

HOMEWORK AND STUDY: Homework and student study is an essential part of your education. Any student expecting to do well in this course should carefully read the text and do all the assigned work.

CHARACTERISTICS OF QUALITY WORK: Using the following guidelines will help you master the Math 1 objectives. Quality work has the following characteristics.

- Is complete with full solution.
- Homework problems should also be completed
- The supporting work for each problem is shown completely using proper algebraic, graphing and geometric conventions and notations.
- The work is done neatly.
- The work is done accurately.

CHARACTERISTICS OF A SUCCESSFUL STUDENT: Students that are successful in school generally exhibit the following traits:

- Is consistently present for class.
- Desires to learn the material presented.
- Uses time wisely.
- Does practice work, study, and test preparation.
- Asks thoughtful questions during class and is willing to listen to all answers.
- Actively participates in class and gets extra help when needed.

CALCULATOR USE AND EXPECTATION: A scientific calculator is necessary for this course. A TI-30 calculator is recommended. **Cell phone calculators are not permitted.**

9.	**COURSE REQUIREMENTS, ATTENDANCE AND GRADING POLICY**

Manage the details – your grade depends on it!

Grading Scale:
90% - 100%   A
80% - 89.9%   B
70% - 79.9%   C
60% - 69.9%   D
0 % - 59.9%   F

30%	Homework, In-class Assignments, Project	
50%	Quizzes, Problem Solving Assessments, Tests & Projects	
20%	Semester Final	

Test Re-takes:
All tests (& most quizzes) can be re-taken. Here is how credit is awarded for re-takes:
- You can earn back up to 30% of the points missed on the test;
- The re-take will cover equivalent skills as the original exam but will be shorter &;
- No re-takes 2 weeks prior to the end of semester.

Late work resulting from student absences will only be accepted if absence is excused through the attendance office.

Late work due to extra-curricular activities will not be accepted

Zeros will be issued on ANY daily assignment or assessment to cheating students and the enabler.

The teacher has the right to adjust assessments, daily assignments and due dates as necessary.