

Physical Science Syllabus

John F Kennedy High school
Physical Science Syllabus
Teacher: Mr. Burke

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***Textbook:** AGS Physical Science

Welcome back to school for the 2016-2017 school year. This is your syllabus for Physical Science. Below you will see the subjects, which will be taught in this course listed according with the corresponding chapters.

The year will begin with an egg drop experiment and end with a rocketry experiment. Students will study the planets, gravity, forces and flight. Students will be expected to know scientific method and they will have to write lab reports.

Students will be expected to work independently and as members of a group completing work as it is assigned. The class will investigate common characteristics among the planets, the causes of forces and the effect of forces on objects. After studying the planets the students will prepare for their egg drop experiment, studying gravity.

Students will be given assistance as needed with setting up experiments, However, all students are expected to attend class regularly, and participate in class to the greatest extent of their ability. Students' grades will be judged upon work complete, participation in class, test scores, experiments and projects.

The class will begin studying the universe, and its organizational structure. Then students will investigate the nature of the solar system's planets and the sun. Then class will transition to the subjects below

Course of Study **Physical Science**

I. Motion

- A. Speed and Velocity
- B. Acceleration

II. Forces

- A. Laws of Motion
- B. Gravity
- C. Newton's Laws

III. Work and Energy

- A. Work and Power
- B. Simple Machines
- C. Conservation of Energy
- D. Potential vs. Kinetic Energy

IV. Flight

- A. Parts of an airplane
- B. Movements of an airplane
- C. Bernoulli's Principle
- D. Paper Airplane Project & Olympics

V. Waves

VI. Sound and Light

- A. Color
- B. Refraction & Reflection
- C. Optical Illusions

VII. Electricity and Magnetism

VIII. Electricity Generation (Time permitting)

Important: Students will be responsible for preparing experiments and using scientific method to write about each experiment.

Students will also be responsible for preparing a 'power point presentation' on the "history of flight".

Assessment: Grades will be given according to student achievement:

30% -daily assigned work which has been completed and handed in on time.

20% -homework assignments which have been completed and handed in on time.

30% -test scores (this includes chapter tests, unit tests, the Algebra "end of course exam")

20% -Participation classroom experiments

GRADING SCALE

90%-100% = A
80%-89% = B
70%-79% = C
64%-69% = D
63% and Below = F

Dear parent or guardian:

In order to be best informed of what your student will be doing in World History this semester, take a few moments to read the material above explaining my expectations. You can keep track of your student's grades by logging on to Infinite Campus. Once you're finished, please sign and provide a contact number below. I will endeavor to stay in touch with you in regards to your student's progress. E-mail works well for me as a communication tool. Please feel free to contact me if you have any questions. I look forward to an outstanding year with your student!

Sincerely,

Terence Burke

John F Kennedy High School
6715 Gloria Drive
Sacramento, CA 95831

(916) 395-5090 Ext. 506402 or my cell 837-8379

burket@scusd.edu

Student _____ Signature _____

Parent/Guardian Name _____

Signature _____

Address _____ Phone # _____

Email address _____

***The return of this form is worth 100 class points and is a chance to get a great start in this class!**