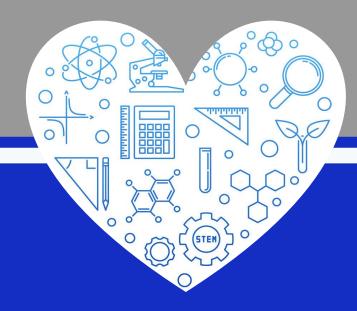
## 8th Grade Parents' Night





Math and Science Information Session January 10, 2023

#### Guida Faria

Supervisor of Science, Engineering and Gifted & Talented gfaria@spfk12.org (908)889-8600 ext. 31405



Supervisor of Math, Computer

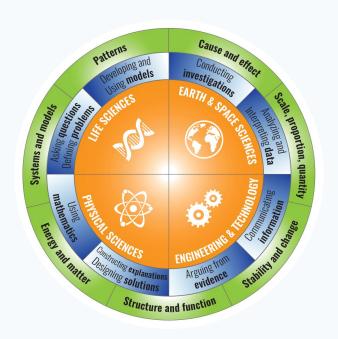
Science and Business

skaeli@spfk12.org

(908)889-8600 ext. 31410

## Science

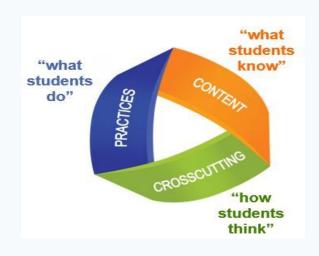




Aligned with the vision of NGSS, SPF science is focused on all standards for all students.

Instruction is focused on having students as the 'doers' of science to figure out a phenomena or designing a solution for an engineering problem.

## New Jersey Student Learning Assessment - Science





- Life Sciences
- Physical Sciences
- Earth & Space Science
- Engineering & Technology
- Crosscutting Concepts
- Science & Engineering Practices

Administered to ALL 11th grade students





#### Course

Progression

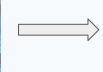


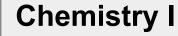
#### 9th Grade

#### **10th Grade**

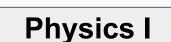
#### 11th Grade

## Biology I











- or -

- Levels for core science classes are *Academic* or *Accelerated* with the exception of Environmental science which is Academic or AP.
- Special education support classes are available for all core science classes.





## Science Elective Opportunities



#### 10th Grade

11th Grade

12th Grade

Astronomy

Chemistry II AP

Anatomy & Physiology

Physics II AP

Biology II AP

Environmental Science AP

Nutrition Science

Forensic Science

Zoology

## Placement & Transition



Departmental Recommendation

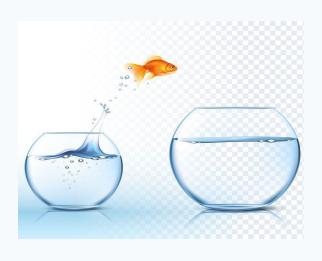
Multiple Measures

Student Self-Reflection

Skills Based Rubric on Performance Based

Assessments

Grades



Placement is flexible and reconsidered every year!

If you have any questions or concerns about science, please feel free to contact me:

Guida Faria gfaria@spfk12.org (908)889-8600 ext. 31405



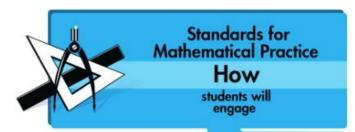
thank



# Mathematics

## **Department Mission**





Standards for Mathematical Content What students should learn



#### Scotch Plains-Fanwood Mathematics Curriculum

The mathematics curriculum supports critical thinking at all levels. It is aligned to the NJSLS for Mathematical Content promotes the development of the skills outlined in the Standards of Mathematical Practice.

## 9th Grade Course Offerings



### Algebra 1 -or-Algebra & Analytic Geometry

- Placement is flexible and evaluated annually.
- All courses develop students' knowledge and skills within contexts of realistic and relevant problems.



## Placement & Course Progression



Placement for 9th grade is a departmental recommendation based on multiple measures such as student self-reflection, skills-based rubric, grades, and assessment data.

Grade 9:	Algebra I		Algebra & Analytic Geometry	
Prerequisite:	Math 8		Math 8/Alg. I & meet expectations on NJSLA	
Grade 10:	Algebra & Analytic Geometry		Algebra II	
Prerequisite:	Algebra I		Algebra & Analytic Geometry	
	Algebra II			
Grade 11:	Alge	bra II	FST	Math Analysis
Grade 11:  Prerequisite:		bra II Ilytic Geometry	FST Algebra II	Math Analysis Algebra II
				<u> </u>

FST = Functions, Statistics, & Trigonometry

## NJ Graduation Requirements

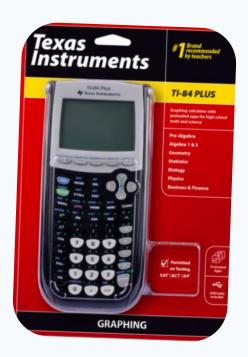
#### **Course Requirements**

- Algebra 1
- Geometry
- Third year of math that builds on Algebra & Geometry & prepares students for college & 21st century careers

#### **Assessment Requirements**

 Students must take and demonstrate proficiency in grade 11 on the New Jersey Graduation Proficiency Assessment which, in Math, assesses Algebra 1 and Geometry.







It is recommended, but not required, that your child have a:

TI-84 Plus Graphing Calculator

or

TI-84 Plus CE Graphing Calculator (Same as the TI-84 Plus but with a color display)

NOTE: This calculator is permitted to be used for use on Math Test—Calculator portion of the SAT.

## **Business and Computer Science**

All students are required to take 2.5 credits of content in Financial, Economic

Business, and Entrepreneurial Business Literacy to meet NJ graduation requirements.

HPLAINS-A

#### **Business Courses Available to Freshmen**

- Consumer Finance
- Introduction to Business Management
- Business Technology

Students in grade 9 are eligible to take Computer Programming Accelerated. While there is no formal prerequisite for this course, students should have strong algebraic problem solving skills and the ability to work independently to persevere through complex tasks.

## **Extracurricular Opportunities**

#### **Mathematics**

- Tutoring Club
   Meets before school once per week to provide
   support for underclassmen. It is a helpful
   support for 9th and 10th graders and an
   excellent service opportunity for
   upperclassmen.
- Math League
   Monthly competition to apply knowledge to novel problems.

   Advisor: Jeff Koegel

jkoegel@spfk12.org

#### **Computer Science**

Girls Who Code
 Advisor: Mini Chawla
 mchawla@spfk12.org

#### **Business**

FBLA (Future Business Leaders of America)

CH PLAINS-P.

Advisor: Bethany Henry bhenry@spfk12.org

DECA (Marketing Club)

Advisor: Marjorie Fitzgibbons mfitzgibbons@spfk12.org

Competitive events and community service clubs. Participates in business and nonbusiness events and various educational community service projects. FBLA is responsible for events such as High School Heros. DECA runs numerous school events though marketing classes.



If you have any questions or concerns about mathematics, please feel free to contact me:

Sarah Kaeli skaeli@spfk12.org (908)889-8600 ext. 31410

