

# 8th Grade Parent Night

January 22, 2020

Anna Alfieri  
HS Math/Science Supervisor  
[anna.alfieri@sbschools.org](mailto:anna.alfieri@sbschools.org)

# Topics

- Graduation Requirements
- Sequence
- Placement Decisions
- Summer Opportunities
- Instruction - Math and Science at SBHS

# Graduation Requirements

- Standardized Test (under review)
- 15 Math Credits
  - Algebra 1
  - Geometry
  - 3rd Course that builds on Alg & Geom
- 15 Science Credits
  - Biology
  - Physical Science (PES, Chemistry, Physics)
  - Third Lab Science
- 21st Century Elective
  - Includes Computer Science in the 21st Century

# Sequence

## Mathematics

Algebra 1

Geometry

Algebra 2

Pre-Calculus

Calculus/Statistics

Electives

## Science

PES/Physics

Chemistry

Biology

Electives

# Physics First

Physics is more fundamental than chemistry and biology, and less abstract than mathematics.

As such it provides the foundation for science while revealing the power and usefulness of mathematics.

*NJ Center for Teaching and Learning*



# Placement Decisions

- Current Math Course and Grades
- Current Teacher Recommendation

**8<sup>th</sup> Grade  
Placement**

**9<sup>th</sup> Grade Placement**

**Math 8**

**Elements of Algebra I  
Physical and Earth Science**

Math 8 < 87 %

**Algebra I  
Academic PES**

Math 8 ≥ 87%

<b>8<sup>th</sup> Grade Placement</b>	<b>9<sup>th</sup> Grade Placement</b>			
<b>Algebra I</b> <input type="checkbox"/>	<b>Algebra I Acad PES</b>  $A < 80\%$	<b>Geometry Academic PES</b>  $80 \leq A < 83\%$	<b>Geometry Physics</b>  $83\% \leq A < 95\%$	<b>Adv Geometry Physics</b>  $A \geq 95\%$



8 <sup>th</sup> Grade Placement	9 <sup>th</sup> Grade Placement				
<b>Geometry</b> <input type="checkbox"/>	<b>Geom Physics</b>  G < 80%	<b>Adv Alg 2 Physics</b>  $80 \leq A/G < 87$	<b>Adv Alg 2 Hon Physics</b>  $87 \leq A/G < 93$	<b>Adv Algebra 2 AP Physics 1</b>  $93 \leq A/G < 95$	<b>Honors Alg 2 AP Physics 1</b>  $A/G \geq 95\%$

# SBHS Summer Institute

## Courses for Credit:

- Advanced Geometry
- Advanced Chemistry
- Advanced Biology

## Courses for Enrichment

- Robotics
- Jump Start Algebra
- Prep for AP Physics

# Summer courses

- Option II application needs to be approved before deadline (3/1) for outside coursework to count for graduation credit
- Will not count toward GPA
- Placement exam required for outside coursework
- Serves as a prerequisite to move into the next course
- Concerns about taking summer course –
  - long term retention
  - lab skills and
  - student growth over 6 weeks versus a whole year

# Clubs

XStem

Robotics

Computer Science

Math League

Science Olympiad

Medical Futures

Red Cross

Science League

# Support

- Math Resource Center available for help during HAP periods and lunch
- Homework Help Center (TWTTh)



# Questions???

Please email

[anna.alfieri@sbschools.org](mailto:anna.alfieri@sbschools.org)

[crystal.burnett@sbschools.org](mailto:crystal.burnett@sbschools.org)