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Math Placement Decisions

- Current Course and grades *
- Current Teacher Recommendation

* Weighted heavily in the placement decision
Grade 9 Math Placement

• Linear Algebra (C) → Elements of Algebra 1
• Linear Algebra (A/B) → Algebra 1
• Algebra 1 (A/B) → Geometry
  - 95% Advanced Geometry
• Geometry (A/B) → Advanced Algebra 2
  - 95% Honors Algebra 2
Math Course Sequence

• Algebra 1  (Graphing Calculator recommended)
• Geometry
• Algebra 2  (Graphing Calculator recommended)
• Pre-Calculus  (Graphing Calculator recommended)
• Calculus  (Graphing Calculator required)
• Statistics  (Graphing Calculator required)

**Doubling in Math - Geometry with Algebra 2; Calculus with Statistics**
Math Levels

- **Elements** (Alg1, Geo, Alg2)
- **Traditional** (Alg1, Geo, Alg2, Trig, Calc)
- **Advanced** (Geo, Alg2, Pre-Calc)
- **Honors** (Alg2, Pre-Calc, College Calc)
- **AP** (Calculus AB, Calculus BC, Statistics)
Graduation Requirements
Class of 2021

• 15 Math Credits (3 classes, taken after graduating from grade 8)
  – Algebra 1
  – Geometry
  – A course that builds on Algebra 1 and Geometry
Testing
Requirements
Class of 2021

• Class of 2021 must pass Algebra 1 end-of-course PARCC
Other Information

- Computer Science for the 21st Century -
  - Elective
  - Followed by AP Comp Sci
- Math Resource Center available for help during HAP periods and lunch
- Homework Help Center (TTh)
Possible Placements in Grade 9

- Physical and Earth Science
- Academic Physical and Earth Science
- Physics 1
- Honors Physics 1
- AP Physics 1
Placement criteria

- Current math course
- Grade in math course
How are student placements in Physical and Earth Science (PES) determined?

• **PES** - if students are placed in Elements of Algebra 1, and students with below a 83% in Linear Algebra

• **Academic PES** – if students have scored less than 83% in Middle School Algebra, or earned above an 83% in Linear Algebra
How are student placements in Physics determined?

• To be placed in **Physics 1**
  Students need to have completed Algebra 1 with above an 83% or completed Linear Algebra with above a 93%.
How are student placements in Physics determined?

- To be placed in **Honors Physics**
  Students need to have completed Algebra 1 and Geometry with an average score of 87% in each

- To be placed in **AP Physics 1 (no more AP Physics B)**
  Students need to have completed Algebra 1 and Geometry by end of June with an average score of 93% in each
Possible Sequences

- Physical and Earth Science
- Biology
- Chemistry or Physics
- Physics or Chemistry

- Physical and Earth Science
- Biology and Chemistry
- Physics and/or Elective
- Elective

- Physical and Earth Science
- Physics and Chemistry
- Biology and/or Elective
- Elective
Electives

**Life Science**
- Biology II
- Human Anatomy and Physiology
- Biotechnology – semester course

**Cross-Curricular**
- Science and Society
- Forensic Science – semester course
- Field Ecology and Animal Behavior

**Physical Science**
- Astronomy - semester course
- Engineering Theory and Application – semester course

**AP**
- Biology
- Chemistry
- Environmental Science
- Physics 1
- Physics C
Differentiation

- Traditional (level I)/Academic
- Honors
- AP
- Level II (only for Biology, and can be taken in either grade 11 or 12 only after Biology 1)
Summer courses

- Option II application needs to be approved before deadline to count for graduation credit, unless taken at Summer Institute here at SBHS
- Will not count toward GPA
- Will qualify as pre-requisite for higher level course if grades meet requirement outlined in course booklet

Concerns about taking summer course –
- long term retention
- lab skills and
- student growth over 6 weeks versus a whole year
Summer Courses Offered at HS

Advanced Geometry
Advanced Chemistry
Advanced Biology

Enrichment only – 3 week courses
- Jump Start Algebra
- Robotics
- Prep for AP Physics/SAT Physics