



# Math Curriculum Night

November 25, 2019

# Welcome Parents

## Goals

- Math Requirements
- Sequence of Courses
- Electives and Activities outside of the classroom

# Secondary Math Requirements

- Students are required to obtain 3 credits in Mathematics
- To obtain a Regents Diploma, students need to pass the Algebra Regents exam
- To obtain a Regents Diploma with Advanced Designation, students need to pass the Algebra, Algebra 2, and Geometry Regents with a grade of 65 or better

# Sequence of Courses

## **Finley Middle School**



Math 7



Algebra

# Finley Middle School

## **Math 7**

- Curriculum includes topics addressing a range of middle level standards
- Students receive Math instruction every day with a double period of Math every other day
- All students take the New York State Math 7 Assessment in the Spring

## **Algebra**

- Students receive Math instruction each day
- Students may be registered for an additional support period of Math that meets every other day (if needed)
- All students take the Algebra Regents in June

# Sequence of Courses

## Huntington High School



**Algebra 2**

**Geometry**

**Precalculus**

**Calculus**

# Elective Courses

## AP Calculus AB

- Students can earn one semester of college credit

## AP Calculus BC

- Students can earn up to two semesters of college credit

## AP Statistics

- Students can earn one semester of college credit



# Elective Courses (cont.)

College Course

## Beacon Program - Precalculus

- Partnership with Suffolk Community College
- Students can earn 4 college credits at a reduced rate of \$57 per credit
- Course may satisfy a students' Math requirement at SUNY colleges and universities



# Elective Courses (cont.)

New Advanced Placement Course:

## AP Computer Science A

- New course offering in 2020
- Students can earn one semester of college credit
- The major theme of the course is to use computers to design, implement and analyze solutions to problems

# Elective Courses (cont.)

## Algebra/Trigonometry

- This course provides students the opportunity to explore topics from Algebra 2 at a more relaxed pace, there is no Regents exam

## Financial Algebra

- This course provides students with the mathematical tools to become financially responsible adults

# Elective Courses (cont.)

## Advanced Algebra

- This course is designed to sharpen students' skills as they prepare for Precalculus and other advanced Math courses

## Calculus

- This course provides an alternative, non-AP course for students who have completed Precalculus and are interested in exploring topics in Calculus

# Elective Courses (cont.)

## PLTW- Computer Science Essentials

- New course offering in 2020 designed to introduce 9<sup>th</sup> and 10<sup>th</sup> grade students to computer programming
- Students will learn the basics of coding and programming

## Introduction to Statistics

- New course offering in 2020
- Students will experience the use of statistical reasoning and models relevant to the real world in the fields of medicine, business, political science and psychology

# Elective Courses (cont.)

## SAT/ACT Math Prep

- New half-year course to be implemented in 2020
- Designed to prepare students for the rigors of standardized testing
- Students will co-register for SAT/ELA Prep and receive alternate day instruction

# Support Classes

## Regents support classes

- Lab classes available to support Algebra, Algebra 2 and Geometry
- Classes meet every other day to give students additional instruction in the course topics

# Support Class:

## Intermediate Algebra

- Course will be implemented in 2020 to assist students that have passed the Algebra course but have not passed the Algebra Regents
- The first half of the year students will review topics needed to be successful on the Algebra Regents in January and the second half of the year will introduce Algebra 2 topics
- Successful completion will result in students earning 1 Math credit



# ENL Classes

## Basic Algebra

- Instruction is provided in Spanish for students that are new to the district or who need to further develop their mathematical skills prior to enrolling in Algebra

## Bilingual Algebra/ ENL Algebra

- Instruction is provided by a certified ENL Math teacher and the bilingual classes are taught in Spanish

# Special Education

Based upon students' IEP goals, class setting and recommendations from the CSE, special education students have following additional course options:

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- Algebra ALC
- Algebra Inclusion
- Discovering Geometry
- Geometry ALC
- Geometry Inclusion
- Algebra/Trigonometry Inclusion
- Algebra 2 Inclusion

# Regents Exam Preparation

## Regents Review Classes

- Afterschool classes are provided for the January and June exams to assist students in their studies
- Classes are provided in Spanish for the Algebra and Geometry exams

# Clubs/Competitions

Finley Middle School

## Mathletes

- All 7th and 8th grade students are invited to participate

## Math Counts

- Students are invited to take an exam to qualify for the team

## Math Fair

- Students in grades 7 and 8 are invited to participate in researching a topic and presenting it at the Long Island Math Fair

# Clubs/Competitions

Huntington High School

## MathCON

- Students compete online in a National Math Competition
- In 2019, 3 students were invited to compete at the finals in Chicago
- This competition will be introduced at Finley this year as well

## Mathletes

- Students in grades 9-12 are welcomed to join and compete with competitive math team questions

# Clubs/Competitions

Huntington High School

## Math Honor Society

- Students apply after the completion of Algebra 2
- Students need an 85 average in their Math courses
- The club provides tutoring and fund raises to offer scholarships to graduating seniors

## Research

- Students may pursue Mathematical topics in their research class
- In 2019, HHS had a Gold Medal winner at the Long Island Math Fair from the research class

# Questions and Answers