# Welcome!

# MVHS Mathematics
# Course Overview for rising 9th graders

Kathleen Yokoyama McCarty, Department Lead

# Selecting Your Math Class

- Select the math class that is right for you!

- Grade Expectations - CW/HW is a smaller part of your grade in HS

- Good rule of thumb - match rigor with interest

- Informed Decision Making - seek information from your current math teacher, guidance staff, parents, etc.

- *You **can** repeat your 8th grade math class (Alg 1, Geo) as a 9th grader in order to build a strong foundation*

- Reinforcement & practice of algebra skills very important in their first high school course; it reflects throughout high school math courses

- A summer class will not give you the same foundation as a year long class!

# Requirements

## FUHSD Graduation

- D grade or higher
- 2 years (through "geometry")
- Algebra:
  - Algebra 1
  - Algebra 2 or Alg 2/Trig
  - Any of the AP math classes
- Geometry:
  - Geometry
  - Applications of Advanced Mathematics (AAM), Precalc or Precalc Honors
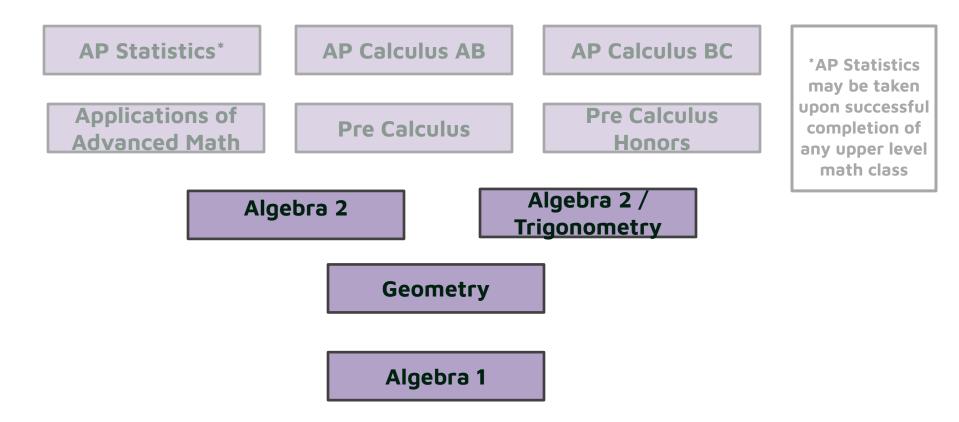
## CSU / UC / 4 yr university

- C grade or higher
- 3 years recommended (through Alg 2)
- UCs and other more selective universities recommend 4 years

# Success in all classes requires:

- Asking for Help

- Self Management

- Organization

- Note Taking

# MVHS Math Pathways

| AP Statistics* | AP Calculus AB | AP Calculus BC |
|---|---|---|
| Applications of Advanced Math | Pre Calculus | Pre Calculus Honors |

*AP Statistics may be taken upon successful completion of any upper level math class

| Algebra 2 | | Algebra 2 / Trigonometry |
|---|---|---|

**Geometry**

**Algebra 1**

# Middle School Math Trends

| 8th graders who successfully complete a course called: | Should plan on taking this course in 9th grade: |
|---|---|
| Common Core Math 8 | Algebra I |
| Common Core Math 8-Alg 1 | Geometry |
| Common Core Math-Geometry | Algebra II<br>Algebra II/Trig. |

# Algebra 2 vs 2/Trig

Successful completion of Alg 2 prepares students for AAM or PC

Successful completion of Alg 2/Trig prepares students for PCH

Differences between Alg 2 & Alg 2/Trig:

- Pace
- Time commitment
- More self-reliance

Alg 2 is a good option for students looking for additional support or students who do not have time in their schedule to support the work load.

# Electives

**Java** is a year long course and more rigorous than what your student may have encountered during a summer program.

**AP Computer Science A**
- Covers the foundations of object oriented programming with Java as the base language
- Advisory: completion of **Java** & **Alg2 / 2/Trig** are recommended

**AP Computer Science Principles**
- Exposure to ~12 languages
- Design thinking
- Formal logic
- Semantics
- Policy regarding technology

# Thank you for attending!

kathleen_mccarty@fuhsd.org