

Lorraine Marshall School Counselor

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Goals for the Evening

- Understand the secondary Math course options in FCPS
- Identify considerations when selecting a course for next year

"Why do I need to learn this?"





Career Interests

Start with thinking about what you are passionate about.

Course Pathways

Make an informed decision about which courses will be available for your student to enroll. Make a four year plan!

Graduation Requirements

We hope our students are engaged in mathematics courses each year of their K-12 career.

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Career Path Ex 1

Entrepreneur/Small Business Owner

- Algebra 2
- Data Science
- Prob/Stats or AP Statistics/





Career Path Ex 2

Aircraft Systems Engineer

- Precalculus
- AP Calculus
- Computer Science

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Career Path Ex 3

School Counselor

- AFDA or Algebra 2
- Prob-Stats or Discrete
 Math





Career Path Ex 4

Al Prompt Engineer

- Precalculus
- Data Science
- Computer Science

Graduation Requirements for Math



at least two different course selections from among: algebra I, geometry, algebra functions, and data analysis, algebra II, or other mathematics courses approved by the board to satisfy this requirement at least three
different course
selections from
among: algebra I,
geometry, algebra II,
or other
mathematics
courses <u>above</u> the
level of algebra II. The
board shall approve
courses to satisfy this
requirement.

Standard Diploma

3 math credits

Advanced Diploma

4 math credits

Math Options Grades 6-8

*Must meet criteria to

enroll

Math 7 Math 6 Math 7 Honors (Pre-Algebra Standards of Learning) Math 6 Advanced Algebra 1 (Math 7 Standards Honors* of Learning) (HS credit)

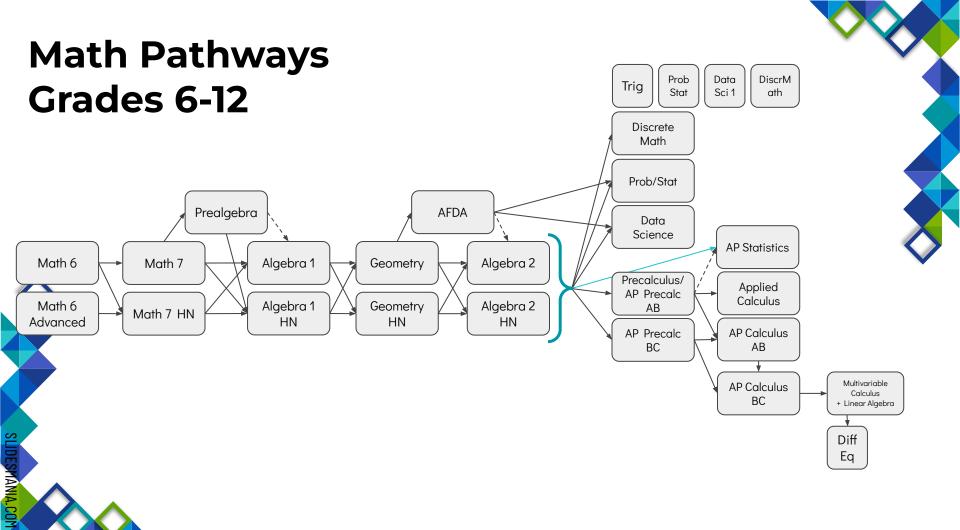
Pre-Algebra

Algebra 1 (HS credit)

Algebra 1
Honors
(HS credit)

Geometry
Honors
(HS credit)

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HS Courses for Credit over the Summer

FCPS Online Summer Learning

- Registration opens January and goes through June 7
- Available Math Courses
 - Algebra 1 Repeat Students Only
 - Geometry and Geometry Honors
 - Algebra 2
- 6-7 asynchronous hrs and a mandatory live class each day
- In person testing for midterm, final and SOL

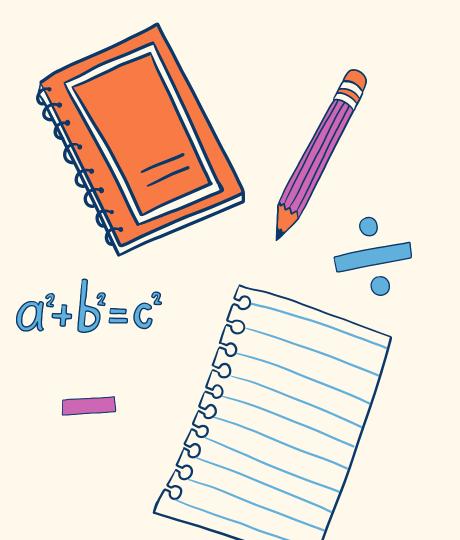
Outside of FCPS Program - Prior approval required to transfer a course credit



Academic Advising in Jan-Feb

- Rising 8th Grade
 - Counselor lessons and individual advising
 - Math teacher feedback
- Rising 9th Grade
 - HS counselor presentation at RRMS
 - Individual advising with RRMS counselor
 - HS Curriculum Night and Activity Fair
 - HS visits





Thank You!

Any Questions?
Contact your child's math teacher and counselor



Students in honors or advanced courses will develop the aforementioned skills AND are

- Enthusiastic for challenging math problems
- Eager to solve problems 2 or more ways
- Excited to explain thinking and ask others about their thinking
- Seeking connections between topics in math class and with other classes
- Willing to take initiative in rigorous work
- Willing to demonstrate fluency of mathematical ideas without a calculator





- Long-term goals (in mathematics and other courses) It's ok if a student doesn't have their whole future planned at age 12! Instead, frame this as "what doors does my child want to leave open?"
- Interest and passion in mathematics
- Current interest and comfort level with most essential content
- Mindset about myself as a mathematics learner (Fixed vs. Growth)





- What mathematics behaviors do I see in myself?
 - Flexibility of thinking -- Procedures ("When I see this, then I do this.") vs. Concepts
 - Where is your child's focus -- Making sense of mathematics vs. the right answer
 - Resilience and Perseverance

Balance!

- Coursework
- Extra curriculars
- Hobbies