

District Math Night

Middle School Math

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Teacher

Questions today?

Option 1: Use Google Q&A above.

Option 2: Use post-it note which we will collect.

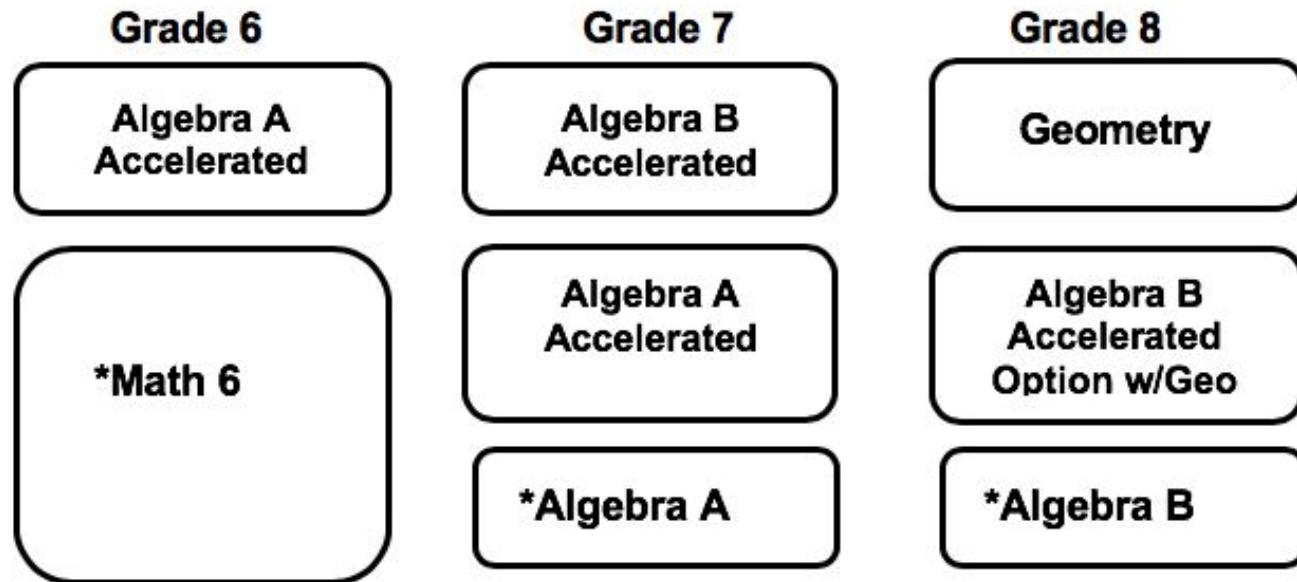
We will address questions at the end of the presentation.

This presentation will be shared on our website.

Agenda

- Welcome, J Goforth
- 6-12 Pathways/Course Progressions, J Goforth
- Math Lab, H Bousel
- 6th Grade Math, S Titus
- Algebra Options/Placement Process, S Titus M Stulbaum
- How to Help Your Child at Home, M. Stulbaum

Middle School Math Course Sequence



*With Math Lab as needed

Middle School	Grade 9	Grade 10	Grade 11	Grade 12
Geometry (*Opt Alg B Accel with Geometry)	Algebra 2/Trig H Algebra 2 H (*Opt Geo. H)	Trig/Calc. H or Pre-Calc. H	AP Calc. BC AP Calc. AB Calc. H	Calc. III HH AP Calc. BC AP Calc. AB AP Statistics
Algebra B Accel. or Algebra B	Geometry H or Geometry	Algebra 2 H or Algebra 2	Trig/Calc. H Pre-Calc. H Pre-Calc. ** Prob & Stats H ** Prob & Stats	AP Calc. AB Calc. H AP Stats Prob. & Stats H Prob. & Stats
Algebra B	Algebra I H or Algebra I	Geometry H or Geometry	Algebra 2 H or Algebra 2	Pre-Calc. or Prob. & Stats

* Option to double in Geometry in 8th or 9th Grade to accelerate.

** Alternate option to Pre-Calculus or recommend taking Probability & Statistics after Pre-Calculus.

Results of Algebra for ALL 2018-2019

- A third (33%) students enter 9th grade above Geometry Honors (advanced path).
- A third (33%) students enter 9th grade with Geometry (accelerated path) .
- A third (33%) students enter 9th grade with Algebra (traditional path).
 - Of these students 70% average are successful (75% or higher final grade) in 9th grade.

Math Lab is for Math Support!

Math Lab is a class taken in addition to the core math class that covers the following for students:

1. **Targeted math skills** (prior skills needed)
2. **Core math lessons** (current or upcoming lessons from core math class)
3. **Study skills** (how to learn math)

Criteria for Placement:

Low exam scores, low cumulative GPA, and teacher recommendation based on classroom performance.

Exit Process:

Teacher recommendation based on **progress** and **performance** in Math Lab and core math class.

Placement Process for incoming 6th Grade

1. All 5th graders take a District Placement Test at the end of school year.
 - a. Placement for 6th grade Test covers: Math 5 and 6 standards, including ratio and proportional reasoning, operating with fractions, decimals and percents and signed numbers.
2. Criteria for placement:
 - a. High average math grade
 - b. High score on End of Year Grade 5 math test
 - c. High average District Placement Test
3. Criteria for remaining in Accelerated Algebra A/B- Students must maintain above 87% average.
4. Renaissance MS - All students take Math 6. Students who place in Algebra A Accelerated take during enrichment time in addition to Math 6.

Math 6

Major Content Areas focus on:

- Ratio and Proportional Relationships
- Operating with fractions and rational numbers
- Integer operations
- Expressions and Equations
- Geometry
- Probability & Statistics

Benefits of taking Math 6:

- Students are able to acquire the skills needed to be successful in Algebra A/B
- Math 6 standards should be mastered prior to entry into Algebra

Algebra For All

Algebra A & B covers:

- Chapters 1-9 Algebra 1
- Geometry
- Probability & Statistics
- Course provides practice, repetition, and a moderate pace

Algebra A & B Accelerated covers:

- Chapters 1-11 Algebra 1
- Geometry, Prob & Stat
- Added topics, such as:
Weighted Averages and
complex numbers
- Faster pace
- Greater emphasis on
critical-thinking skills and real
world applications and
problem-solving

Placement Process for incoming 7th Grade

1. All 6th graders take a District Placement Test at the end of school year.
 - a. Placement Test covers: Math 6 and 7 standards, including ratio and proportional reasoning, operating with fractions, decimals and percents and signed numbers.
2. Criteria for placement:
 - a. High average math grade
 - b. High average Midterm & Final Exam Grades
 - c. High average District Placement Test
3. Criteria for remaining in Accelerated Algebra A/B- Students must maintain above 87% average/80% Test Average
4. Reminder: Renaissance MS - All students take Accelerated Algebra A/B

Geometry

- MS Geometry follows the Honors Geometry at MHS curriculum.
- MS Geometry can be taken with Algebra B Accelerated if the student earned a high A average, and As on the midterm and final exam A in Algebra A Accelerated.
- Students are encouraged to **NOT** double up with Geometry and Algebra B or HS Algebra 1 **to focus on Algebra which is the foundation for upper level math.**

HOW TO HELP YOUR CHILD AT HOME:

Resources available for at-home use:

Go to WWW.CLEVER.COM for:

(Students login with district email and password, also linked on district website)

- 1) McGraw-Hill - 6th grade online textbook
- 2) Pearson Algebra I Common Core - Algebra A & B online textbook
- 3) www.khanacademy.org Online free support for all subjects
- 4) MobyMax - Online lessons and practice (material thru Pre-Algebra)

Useful Sites for Learning Math

- www.flippedmath.com - online courses (Algebra I thru Calc)
- YouTube, Google or www.Bing.com- Videos for any topic
- www.purplemath.com - online lessons
- <https://www.mathsisfun.com/> - online games
- <http://www.math-aids.com/> - online worksheets, games and more
- <https://kahoot.it/> - self quizzing tool

NJ Digital Item Library- NJDOE resource

- Search by subject (ELA or Math) and Grade Level (Grades 3 and up)
- Lists sample questions by standard, including number and description
- Includes multiple choice questions as well as short answers with the equation editor

THANK YOU!

For additional information, please contact:

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