

2019 - 2020
**5th Grade Math & Science
Program Informational Meeting**

February 2019

Mr. Michael Richards
Principal, LMS

Dr. Christopher Herte
Mathematics/Science Supervisor 5-8

Mrs. Georgianna Kichura
Vice Principal, LMS

Montgomery Township School District



Mathematics Program

- Resources
 - Extra help provided weekly by child's teacher
 - Study Guides for each Unit Assessment
 - EnVision online textbook and resources (6th grade as well)
- Extra-curricular & Math related activities
 - Math Competitions & Games
 - 24-Game (April/May)
 - Math League Contest (April)
 - Math/Science Competition Club (competitive)
 - Grade 5 Math-Science Activity Club (non-competitive)



Textbooks

- *How can I find out what textbook my child will be using next year?*
- Go to the LMS Math Department webpage and click on Math Textbooks 5-8. You will see a complete list of all the textbooks and their information.
- <https://www.mtsd.k12.nj.us/Page/9477>



Textbooks

- *Can I borrow a textbook during the summer?*
- **Yes**
- After school gets out in June come to the LMS Main Office and ask for the textbook for your child. You will issue a check for \$100 to “Montgomery LMS” that will be cashed. You will have a check for the same amount issued to you when the book is returned.



Science Program 5 & 6

- **Grade 5 Units:**

- Structure & Properties of Matter
- Space Systems: Stars & the Solar System
- Earth's Systems
- Matter & Energy in Organisms & Ecosystems

- **Grade 6 Units:**

- Weather & Climate
- Earth Systems & History
- Space Systems
- Waves & Electromagnetic Radiation



Science Program 7

- **Grade 7 (Life Science):**

- Structure & Function
- Growth, Development & Reproduction
- Matter, Energy in Organisms & Ecosystems
- Interdependent Relationships in Ecosystems
- Natural Selection and Adaptation



Next Generation Science in Montgomery

2019-2020

Dr. Christopher Herte
Mathematics & Science Supervisor 5-8



Departments

- Overview
- Contests & Activities

Welcome to the LMS Science Department.

Math/Science Parent Meetings:

- [Grade 5 Math/Science Flyer](#)
- [Grade 6 Math/Science Flyer](#)

Next Generation Science Standards (NGSS) Resources

Parent Resource from the National Science Teachers Association (NSTA)
[NGSS Parent Guide](#)

About the Next Generation Science Standards (NGSS)
[Getting to Know the NGSS](#)

Video Explaining the NGSS
[Video Explaining NGSS](#)

Comparing the New Vision of NGSS
[Comparison of Former Science to NGSS](#)

Other Parent Resources from the NSTA
[NSTA Parent Resources](#)

We wish your child the very best success.

Dr. Christopher Herte
Mathematics/Science Supervisor 5-8
Presidential Awardee in Mathematics & Science Teaching (2000)

Strong Foundation



Blocks of content carefully placed to create a foundation for strong understanding.



Common concepts that hold the content together & connect the grade levels

Tools and techniques that assist in building the foundation- ways of thinking and acting like a scientist and/or engineer

LMS Grade 6 Activities

- ***What activities are available?***
 - Mathcounts (Tryouts –competitive)
 - Math Olympiads in Pre-Algebra 6
 - Grade 6 Science Club (Activities, not competitive)
 - Math League Contest (Contest in April/May)
 - Science League Contest (Contest in April/May)
 - E-Alert is sent with permission slip to sign up.
 - Electronic Sign up.

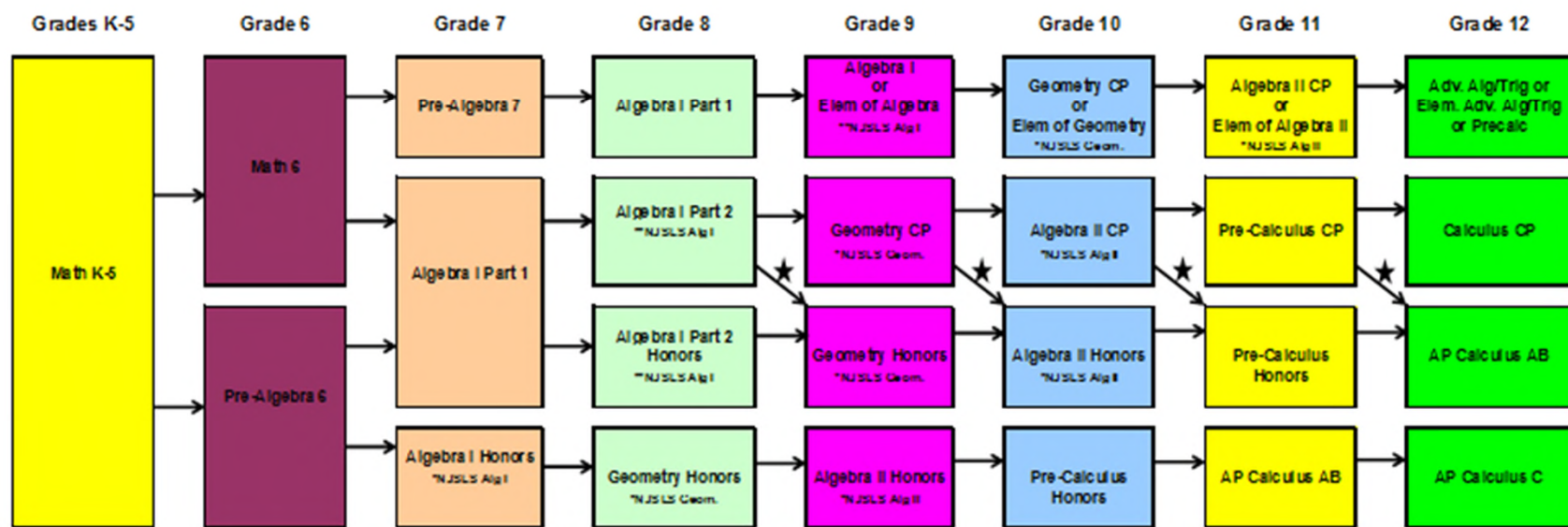


Math Sequences

- *What are the common math sequences?*
- The next slide illustrates the common math sequences. Students can also accelerate, once they enter the High School, if they choose. A study conducted in 2018 showed that the current seniors (Class of 2019) had over 60 different sequences with no more than 35 students in any one sequence.



Montgomery Township Schools Common Mathematics Sequences



NOTES:

* Denotes possible course path if student meets the HS Program of Studies Requirement of 95% or higher in prerequisite course.

Common course sequences are illustrated. Additional opportunities are available through Option II process. See HS Program of Studies Guide.

In order for students to continue in the Honors sequence, students must maintain the required average based on the Course of Study requirements.

NJSLS:

* In grades 5-6 students take the NJSLS Math Assessment for their grade level unless they are in an indicated HS level course

** Students must take and pass the NJSLS Algebra I test as it is a NJ High School Graduation Requirement.

Math 6

- Math 6 meets the NJ State Learning Standards for grade 6 while providing students challenging activities and experiences where they can explore real world applications.
- Content includes operations with whole numbers, integers, decimals, fractions, geometry, data analysis, number systems, rates, ratios, proportions, percents, and introduction to solving equations.



Pre-Algebra 6

- A rigorous challenging course that emphasizes problem-solving and critical thinking while developing necessary concepts for the further study of algebra in a high school level course.
- Course topic sections include operations with integers, and rational numbers, factors, exponents, algebraic expressions, solving one and multi-step equations and inequalities, ratio, proportions, percents, probability, and geometry.



Math 6 and Pre-Algebra 6 Placement Criteria

- *Unit Test averages (45%)* the four marking periods
- *Cumulative Assessment (25%)* placement test
- *Measures of Academic Progress-MAP (25%)*
- *Work Habits/Study Skills (5%)* assessed by the teacher using a district-developed rubric

These criteria will make up the final summary score that determines the student's mathematics placement.



Unit Test Averages

- Unit tests are common assessments for all students in grade 5
- Concepts are reviewed and there are review (Study Guides) for each unit are distributed to students.
- If as student scores less than 70% on a Unit Test they may retake the test to receive a maximum grade of 70. (They receive the higher of the first test and retest to a maximum of 70)



Cumulative Assessment

- Scheduled for **May 20th** and **May 21st**
- Cumulative Assessment is a common assessment for all students in grade 5
- Concepts are reviewed and a review packet is distributed to students and online –also answers to the review packet will be available online.
- Important for students to pull all concepts from the year together



Measures of Academic Progress -MAP

- Scheduled for **April 15th -17th**
- Computerized adaptive test
- Untimed assessment
- Charts your child's academic growth from year to year
- The information helps to guide instruction and to make placement decisions



Math Placement

- *How will I be informed of my child's placement in grade 6?*
- You will receive a Summary Sheet which should be mailed/online from LMS on **May 29th** . It will provide the details illustrated on the next slide.



Waiver Option

- The student's performance **summary score** and **placement** will be indicated in the **May 29th mailing/online**.
- Parents and students can consider the **waiver option** if and only if a student's **summary score** is within **3 points** of the score needed for the requested placement.
- Waiver Form is included in the mailing if your child is eligible for one.
- Waivers should be sent to the **LMS main office** no later than **June 12th**.



Data Summary Sheet

• Montgomery Township Schools •

Math Placement Data Sheet

Sixth Grade Math Placement for 2019-2020

May 2019

Student's Name:

Grade Five Cumulative Assessment = (25% of Summary Score)

MAP Assessment = (25% of Summary Score)

(Out of 285 points)

Grade Five Test Average = (45% of Summary Score)

(Test Average during the year)

Work Habits/Study Skills Assessment = (5% of Summary Score)

Summary Score = (out of 100 points)

Math Placement =

Placement Cutoffs:

Math 6: Summary Scores from 0 - 89

Pre Algebra 6: Summary Scores from 90 - 100

Placement Timeline



- April 15th - 17th -MAP Testing
- May 20th & 21st - Cumulative Assessment (Grade 5)
- After May 29th - Placement information and detail
- June 12th - Waiver form deadline to be returned to LMS
main office
- Summer - New student testing (dates to be posted)



Your Questions



Please remember to return your feedback sheets before leaving this meeting.

Thank you so much.



Dr. Christopher Herte
Mathematics/Science Supervisor 5-8
cherte@mtsd.us



***Actual placement letters** have been included with student's names and dates redacted to provide parents examples of placement letters. There are several letters of students placing into Math 6, some placing into Pre-Algebra 6 and one letter indicating a student who was eligible for a waiver. **The red BOLD text** on each letter was added for this presentation.*

The inclusion of the example letters on the next few pages is based on the feedback from parents who attended one of the Math/Science nights in February 2017. Thank you for your feedback.

I hope you find this helpful. –Dr. Herte

DATE

Dear Parent/Guardian of *Student*,

Below is the mathematics placement for your child, *Your Child*, for Next Year. This placement also includes the student achievement data that are used to determine this placement. Mathematics placement is a careful process that includes multiple measures and the details are outlined on the LMS webpage. Our experience has demonstrated that your child should be successful in the placement indicated. We wish *Your Child* a very successful year at LMS, academically, and social and emotionally.

• **Montgomery Township School District** •

Math Placement Data Sheet
Sixth Grade Math Placement for Next Year

DATE YEAR

Student's Name: *Your Child*

Grade Five Unit Test Average = 83 (45% of Summary Score)
(Test average of 4 marking periods)

Grade Five End of Year Assessment = 66 (25% of Summary Score)
(Math 5)

MAP Assessment = 231 (25% of Summary Score)
(MAP score out of 285 points)

Work Habits/Study Skills Assessment = 85 (5% of Summary Score)

Summary Score = **78** (out of 100 points)

Math Placement:

Math 6

Placement Cutoffs:

- *Math 6:* Summary Scores from 0 – 89
- *Pre-Algebra 6:* Summary Scores from 90 - 100

NOTE: The above placement letter is an actual letter sent to a family during one of the past few years. The name has been removed and is indicated as Student or Your Child. The date(s) and months have been removed and are indicated as "DATE." The intention is provide parents with examples of actual letters from previous years. This request came from the feedback following the Math/Science Informational Meeting in February 2017.

DATE

Dear Parent/Guardian of *Student*,

Below is the mathematics placement for your child, *Your Child*, for Next Year. This placement also includes the student achievement data that are used to determine this placement. Mathematics placement is a careful process that includes multiple measures and the details are outlined on the LMS webpage. Our experience has demonstrated that your child should be successful in the placement indicated. We wish *Your Child* a very successful year at LMS, academically, and social and emotionally.

• **Montgomery Township School District** •

Math Placement Data Sheet
Sixth Grade Math Placement for Next Year

DATE YEAR

Student's Name: *Your Child*

Grade Five Unit Test Average = 77 (45% of Summary Score)
(Test average of 4 marking periods)

Grade Five End of Year Assessment = 71 (25% of Summary Score)
(Math 5)

MAP Assessment = 233 (25% of Summary Score)
(MAP score out of 285 points)

Work Habits/Study Skills Assessment = 70 (5% of Summary Score)

Summary Score = **76** (out of 100 points)

Math Placement:

Math 6

Placement Cutoffs:

- *Math 6:* Summary Scores from 0 – 89
- *Pre-Algebra 6:* Summary Scores from 90 - 100

NOTE: The above placement letter is an actual letter sent to a family during one of the past few years. The name has been removed and is indicated as Student or Your Child. The date(s) and months have been removed and are indicated as "DATE." The intention is provide parents with examples of actual letters from previous years. This request came from the feedback following the Math/Science Informational Meeting in February 2017.

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Dear Parent/Guardian of *Student*,

Below is the mathematics placement for your child, *Your Child*, for Next Year. This placement also includes the student achievement data that are used to determine this placement. Mathematics placement is a careful process that includes multiple measures and the details are outlined on the LMS webpage. Our experience has demonstrated that your child should be successful in the placement indicated. We wish *Your Child* a very successful year at LMS, academically, and social and emotionally.

• **Montgomery Township School District** •

Math Placement Data Sheet
Sixth Grade Math Placement for Next Year

DATE YEAR

Student's Name: *Your Child*

Grade Five Unit Test Average = 86 (45% of Summary Score)
(Test average of 4 marking periods)

Grade Five End of Year Assessment = 86 (25% of Summary Score)
(Math 5)

MAP Assessment = 237 (25% of Summary Score)
(MAP score out of 285 points)

Work Habits/Study Skills Assessment = 95 (5% of Summary Score)

Summary Score = **86** (out of 100 points)

Math Placement:

Math 6

Placement Cutoffs:

- *Math 6:* Summary Scores from 0 – 89
- *Pre-Algebra 6:* Summary Scores from 90 - 100

NOTE: The above placement letter is an actual letter sent to a family during one of the past few years. The name has been removed and is indicated as Student or Your Child. The date(s) and months have been removed and are indicated as "DATE." The intention is provide parents with examples of actual letters from previous years. This request came from the feedback following the Math/Science Informational Meeting in February 2017.

NOTE: This Student was NOT Eligible for a Waiver.

DATE

Dear Parent/Guardian of *Student*,

Below is the mathematics placement for your child, *Your Child*, for Next Year. This placement also includes the student achievement data that are used to determine this placement. Mathematics placement is a careful process that includes multiple measures and the details are outlined on the LMS webpage. Our experience has demonstrated that your child should be successful in the placement indicated. We wish *Your Child* a very successful year at LMS, academically, and social and emotionally.

• **Montgomery Township School District** •

Math Placement Data Sheet
Sixth Grade Math Placement for Next Year

DATE YEAR

Student's Name: *Your Child*

Grade Five Unit Test Average = 92 (45% of Summary Score)
(Test average of 4 marking periods)

Grade Five End of Year Assessment = 94 (25% of Summary Score)
(Math 5)

MAP Assessment = 237 (25% of Summary Score)
(MAP score out of 285 points)

Work Habits/Study Skills Assessment = 100 (5% of Summary Score)

Summary Score = **91** (out of 100 points)

Math Placement:

Pre-Algebra 6

Placement Cutoffs:

- *Math 6:* Summary Scores from 0 – 89
- *Pre-Algebra 6:* Summary Scores from 90 – 100

NOTE: The above placement letter is an actual letter sent to a family during one of the past few years. The name has been removed and is indicated as Student or Your Child. The date(s) and months have been removed and are indicated as "DATE" The intention is provide parents with examples of actual letters from previous years. This request came from the feedback following the Math/Science Informational Meeting in February 2017.

DATE

Dear Parent/Guardian of *Student*,

Below is the mathematics placement for your child, *Your Child*, for Next Year. This placement also includes the student achievement data that are used to determine this placement. Mathematics placement is a careful process that includes multiple measures and the details are outlined on the LMS webpage. Our experience has demonstrated that your child should be successful in the placement indicated. We wish *Your Child* a very successful year at LMS, academically, and social and emotionally.

• **Montgomery Township School District** •

Math Placement Data Sheet
Sixth Grade Math Placement for Next Year

DATE YEAR

Student's Name: *Your Child*

Grade Five Unit Test Average = 91 (45% of Summary Score)
(Test average of 4 marking periods)

Grade Five End of Year Assessment = 90 (25% of Summary Score)
(Math 5)

MAP Assessment = 240 (25% of Summary Score)
(MAP score out of 285 points)

Work Habits/Study Skills Assessment = 100 (5% of Summary Score)

Summary Score = **90** (out of 100 points)

Math Placement:

Pre-Algebra 6

Placement Cutoffs:

- *Math 6:* Summary Scores from 0 – 89
- *Pre-Algebra 6:* Summary Scores from 90 - 100

NOTE: The above placement letter is an actual letter sent to a family during one of the past few years. The name has been removed and is indicated as Student or Your Child. The date(s) and months have been removed and are indicated as "DATE." The intention is provide parents with examples of actual letters from previous years. This request came from the feedback following the Math/Science Informational Meeting in February 2017.

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Below is the mathematics placement for your child, *Your Child*, for Next Year. This placement also includes the student achievement data that are used to determine this placement. Mathematics placement is a careful process that includes multiple measures and the details are outlined on the LMS webpage. Our experience has demonstrated that your child should be successful in the placement indicated. We wish *Your Child* a very successful year at LMS, academically, and social and emotionally.

• **Montgomery Township School District** •

Math Placement Data Sheet
Sixth Grade Math Placement for Next Year

DATE YEAR

Student's Name: *Your Child*

Grade Five Unit Test Average = 90 (45% of Summary Score)
(Test average of 4 marking periods)

Grade Five End of Year Assessment = 82 (25% of Summary Score)
(Math 5)

MAP Assessment = 244 (25% of Summary Score)
(MAP score out of 285 points)

Work Habits/Study Skills Assessment = 90 (5% of Summary Score)

Summary Score = **87** (out of 100 points)

Math Placement:

Math 6

Your child did not meet the required summary score for Pre-Algebra 6. However, your child's summary score is 3 or less points from the required score. You may consider completing a waiver to have your child scheduled for Pre-Algebra 6. The waiver form has been included in this mailing for your convenience. We request that you sign, indicating your request for the waiver (Yes or No), and return it to the Lower Middle School (LMS) Main Office by DATE. All waivers returned by DATE are approved based on parent's indicated request.

Placement Cutoffs:

- *Math 6*: Summary Scores from 0 – 89
- *Pre-Algebra 6*: Summary Scores from 90 - 100

NOTE: The above placement letter is an actual letter sent to a family during one of the past few years. The name has been removed and is indicated as Student or Your Child. The date(s) and months have been removed and are indicated as "DATE." The intention is provide parents with examples of actual letters from previous years. This request came from the feedback following the Math/Science Informational Meeting in February 2017.

EXAMPLE OF STUDENT ELIGIBLE FOR A WAIVER