

2017 - 2018
**5th Grade Math & Science
Program Informational Meeting**

January 2018

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Montgomery Township School District



Mathematics Program

- Resources
 - Extra help
 - Study Guides
 - EnVision online textbook and resources
- Extra-curricular & Math related activities
 - Math Competitions & Games
 - 24-Game (March-April)
 - Math League Contest (April)
 - Math/Science Enrichment (competitive)
 - Grade 5 Math-Science Club (non-competitive)



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.



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.



Partnership for Assessment of Readiness for College and Careers

PARCC

- *How can I find out more about the PARCC Assessment?*
- *Language Arts & Mathematics only*
- *NOTE: PARCC is NOT part of math placement.*



Montgomery Township School District

Search this Site...

SEARCH

Assessment, Curriculum, and Instruction

- [Welcome](#)
- [Understanding Your Child's Test Results](#)
- [Step by Step Interpretive Guides on 2016 Score Reports](#)
- [Sample PARCC Score Reports](#)
- [MTSD Parent FAQ 2016-17](#)
- [PARCC Parent Letter from the Director of Data, Assessment and Accountability](#)
- [Personal Needs Profile \(PNP\) Information](#)
- [NJPTA Guide to PARCC](#)
- [Additional Resources About Assessment](#)



PARCC Resources

During the 2016-2017 school year, students in grades 3-11 will participate in an online assessment called The Partnership for Assessment for Readiness of College and Careers (PARCC). PARCC is designed to determine a student's readiness for college and career. It will help parents and teachers to determine whether or not students have achieved grade level standards.

The following descriptions are provided as an introduction and summary to some of the resources found on the [PARCC website](#). Please review and begin exploring the most current information on the PARCC testing that will occur March 2017-May 2017.

[About PARCC](#)

This link gives an overview of The Partnership for Assessment of Readiness for College and Careers as well as their beliefs, the states who are participating in the PARCC assessments and resources.

[Parent Resources](#)

This link provides an assortment of resources that are intended to inform and support parents in their children's educational experiences.

Science Program

- Resources
 - Extra help
 - Study Guides
 - Materials on Google Classroom or Teacher's webpage
- Extra-curricular & Science related activities
 - Science Competitions & Games
 - Science & Invention Convention (PTO) Awesome Program! (non-competitive)
 - Science League Contest -1-day contest (April/May)



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



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 5 Activities

- ***What activities are available?***
- Math/Science Enrichment (competitive)
- Math-Science Club (non-competitive)
- Challenge 24 (Contest in March/April)
- 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-Science Club

- *What activities do they do?*
- Not competitive.
- Hands on and/or interesting mathematics and science students would not see in the curriculum.

- Examples:
- Fractals, Pi, Different Geometry
- Real Engineering Challenges
- Investigations



Math-Science Competition

- *What activities do they do?*
- Competitive.
- Students take math contests (Math Olympiads and others) – similar to tests.
- Students compete for team and school awards

- Examples:
- Math Olympiads, Math League
- Engineering Challenges



LMS Grade 6 Activities

- ***What activities are available?***
- Mathcounts (competitive) Math Olympiads, AMC 8
- Grade 6 Science Club (non-competitive)
- Math League Contest (Contest in Feb.)
- Science League Contest (Contest in April/May)
- E-Alert will be sent with link to sign up.
- –Space is limited.



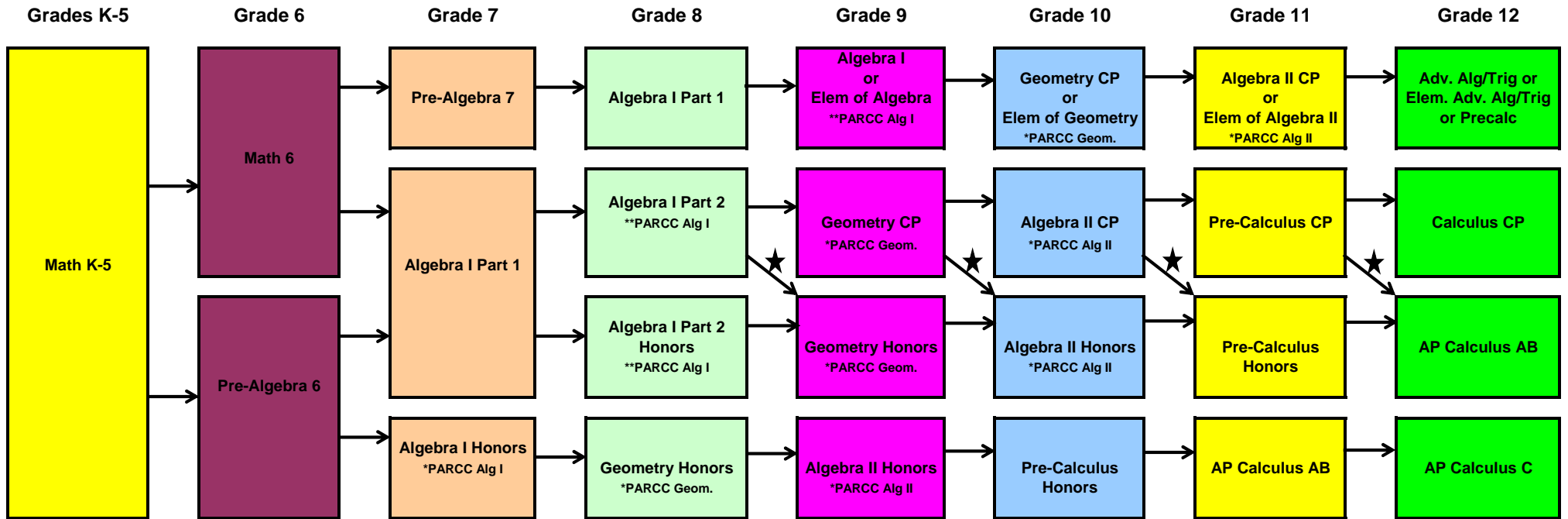
Math Sequences

- *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. There are several opportunities for this once a student enters High School. More information on these opportunities (Option II) can be found in the HS Program of Studies available on the HS website.



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.

PARCC: * In grades 5-8 students take the PARCC Assessment for their grade level unless they are in an indicated HS level course

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

Math 6

- Math 6 meets the Common Core 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 and graphing equations and inequalities, ratio, proportions, percents, probability, and geometry.



Math Placement

- *What is the placement criteria for grade six math courses?*



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.



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 from LMS on **May 23rd** . 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 23rd mailing**.
- 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 11th**.



Data Summary Sheet

• Montgomery Township Schools •

Math Placement Data Sheet

Sixth Grade Math Placement for 2018-2019

May 2018

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 of 4 marking periods)

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

***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 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.

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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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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.

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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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• **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

Placement Timeline



- April 18th - 20th -MAP Testing
- May 9th & 11th - Cumulative Assessment (Grade 5)
- After May 23rd - Placement information and detail
- June 11th - 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
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