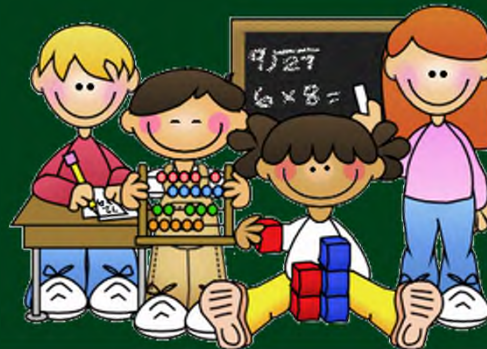# *2016- 2017*
6th Grade Math & Science Program Informational Meeting

January 2018

Mr. Michael Richards
Principal, LMS

Dr. Christopher Herte
Mathematics/Science Supervisor 5-8

Mrs. Georgianna Kichura
Asst. Principal, LMS

Montgomery Township School District

Mathematics Program

- Overview

- Resources
  - Extra help
  - Study Guides
  - Online textbook and resources (Pre-Algebra & Math 6)

- Extra-curricular & Math related activities
  - Math Competitions & Games
    - Mathcounts (Competitive & ongoing)
    - Math League Contest (Feb. 28) –Math Teachers

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

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

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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

Textbooks

- *Can I borrow a textbook during the summer?*

- **Yes**

- After school gets out in June go to the UMS Main Office and ask for the textbook for your child. You will issue a check for $100 to "Montgomery UMS" that will be cashed. You will have a check for the same amount issued to you when the book is returned.

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Partnership for Assessment of Readiness for College and Careers

PARCC

- *How can I find out more about the PARCC Assessment?*

- *NOTE: PARCC is __NOT__ part of math placement.*

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Home   Board of Education   Assessment, Curriculum, and Instruction   Departments   Parents/Community   Staff Portal   Calendar

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 — Partnership for Assessment of Readiness for College and Careers

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.

LMS Activities

- *What activities are available?*
- Mathcounts (Math Olympiad, AMC 8)
- Math League Contest 2/27

  (See Math Teacher for info)

- Grade 6 Science Club
- Science League Contest 5/3

  (E-Alert will be sent for sign ups)

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UMS Activities

- *What activities are available?*
- Mathcounts, Math Olympiads, AMC 10
- AMC 8, Algebra Contest, Math 7 Contest
- Life Science Contest (Contest in April)
- General Science Contest
- Science Olympiad team (competitive)
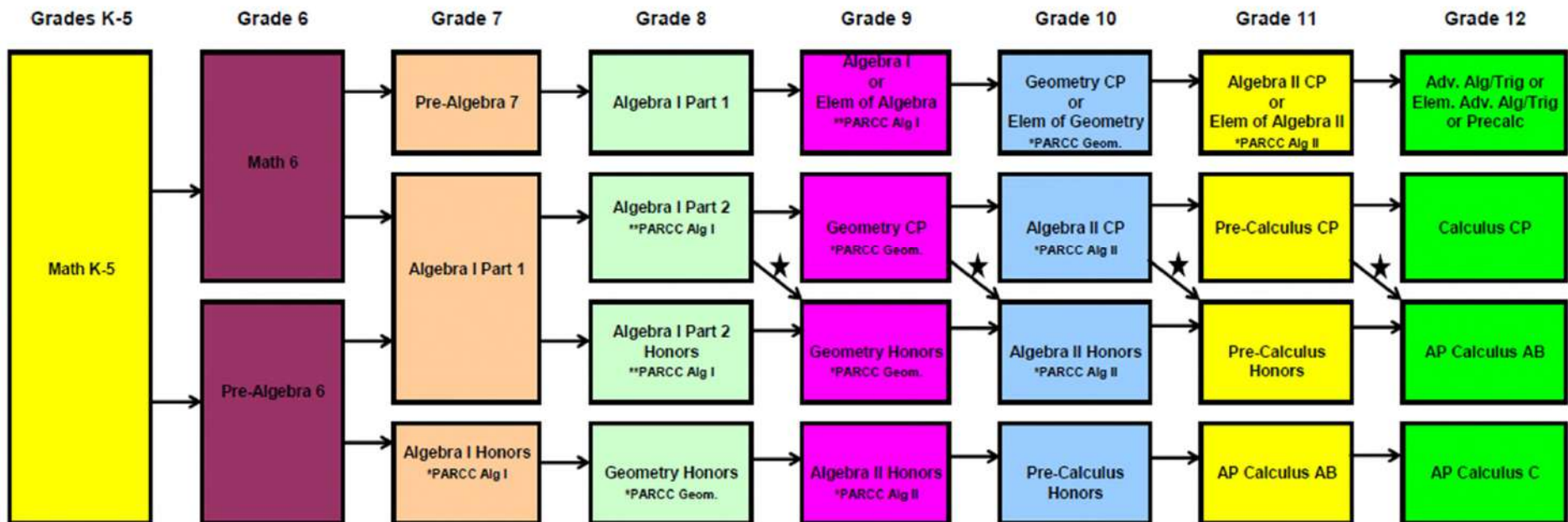- Robotics Team (competitive)

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Math Sequences

- *What are the <u>common</u> math sequences?*

- The next slide illustrates the <u>common</u> 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.

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Montgomery Township Schools
Common Mathematics Sequences

Grades K-5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
Math K-5	Math 6	Pre-Algebra 7	Algebra I Part 1	Algebra I or Elem of Algebra **PARCC Alg I	Geometry CP or Elem of Geometry *PARCC Geom.	Algebra II CP or Elem of Algebra II *PARCC Alg II	Adv. Alg/Trig or Elem. Adv. Alg/Trig or Precalc
		Algebra I Part 1	Algebra I Part 2 **PARCC Alg I	Geometry CP *PARCC Geom.	Algebra II CP *PARCC Alg II	Pre-Calculus CP	Calculus CP
	Pre-Algebra 6		Algebra I Part 2 Honors **PARCC Alg I	Geometry Honors *PARCC Geom.	Algebra II Honors *PARCC Alg II	Pre-Calculus Honors	AP Calculus AB
		Algebra I Honors *PARCC Alg I	Geometry Honors *PARCC Geom.	Algebra II Honors *PARCC Alg II	Pre-Calculus Honors	AP Calculus AB	AP Calculus C

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.

Pre-Algebra 7

- A course aligned with the Common Core Standards that emphasizes problem-solving and critical thinking while developing necessary concepts for the further study of algebra in a high school level course.

- Emphasis is placed upon the development and understanding of pre-algebraic and algebraic skills and their use in application and problem solving.

- Course topic sections include operations with integers, and rational numbers, factors, exponents, algebraic expressions, solving multi-step equations and inequalities, ratio, proportions, percents, probability, and geometry.

- Students take Math 7 PARCC

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Algebra I Part 1

- A full-year course that develops the first half of the study of high school Algebra I. Students develop skills in problem solving and critical thinking through real-world and mathematical problems.

- Course topic sections include writing, simplifying, and evaluating algebraic expressions. Modeling, writing, and solving algebraic equations and functions. Graphing and representing linear equations in a variety of forms. Creating, analyzing, and making linear predictions with scatter plots is developed. Additional Common Core topics are also taught (Geometry, Statistics)

- Students take Math 7 PARCC

Algebra I Honors

- A full year rigorous honors course that develops all the concepts and skills of high school Algebra I.

- Topics include: expressions, polynomials, radicals, exponents, linear and non-linear functions, quadratic equations, systems of equations and inequalities, probability and data analysis.

- Students must take Algebra I PARCC

- <u>Passing</u> the Algebra I PARCC is a NJ High School Graduation Requirement.

Math Placement

- *What is the placement criteria for grade seven courses?*

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Placement Criteria for
Pre-Algebra 7 & Algebra I Pt. 1

- *Unit Test averages (45%)* the 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.

Placement Criteria
for Algebra I Honors

- *Unit Test averages (35%)* the marking periods

- *Cumulative Assessment (20%) Pre-Algebra 6*

- *Measures of Academic Progress-MAP (20%)*

- *IOWA Algebra Aptitude Test (20%)*

- *Work Habits/Study Skills (5%)* determined 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 7?*

- You will receive a Summary Sheet which should be mailed from LMS on **May 23**. It will provide the details illustrated on the next two slides.

Data Summary Sheet

- Montgomery Township Schools -
Math Placement Data Sheet
Seventh Grade Math Placement for 2018-2019
May 2018

Student's Name:

Cumulative Assessment = (25% of Summary Score)

(Math 6)

MAP Assessment = (25% of Summary Score)
(Out of 285 points)

Grade Six Test Average = (45% of Summary Score)
(Test Average of marking periods)

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

Summary Score = (out of 100 points)

Math Placement =

Placement Cutoffs:

Pre-Algebra 7:   Summary Scores from 0 – 82
Algebra I Part 1:   Summary Scores from 83 - 100

Data Summary Sheet

• Montgomery Township Schools •
Math Placement Data Sheet
Seventh Grade Math Placement for 2017-2018
May 2017

Student's Name:

Cumulative Assessment   =   (20% of Summary Score)
   (Pre-Algebra 6)

Iowa Algebra Aptitude Test   =   (20% of Summary Score)

MAP Assessment   =   (20% of Summary Score)
(Out of 285 points)

Grade Six Test Average   =   (35% of Summary Score)
(Test Average of marking periods)

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

Summary Score   =   (out of 100 points)

Math Placement   =

Placement Cutoffs:

Algebra I Part 1:   Summary Scores from 0 – 86
Algebra I Honors: Summary Scores from 87 - 100

Waiver Option

- The student's performance summary score and placement will be included in the **May 23** 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.

- Waivers must be submitted to the UMS main office no later than June 11th .

Placement Timeline

- **April**   -MAP Math Testing

- **April 19   (4/20 Makeups)** – IOWA Algebra Aptitude Test

- **May 9, 10**   - Cumulative Assessment (Math 6/Pre-Alg 6)

- **May 23** – Placement information mailed from LMS

- **June 11**   – Waiver form deadline to be returned to **UMS**

  main office

- Summer – New student testing (dates to be posted)

***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, *Student*, for Next September. 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 *Student* a very successful year at UMS, academically, and social and emotionally.

• **Montgomery Township School District** •

Math Placement Data Sheet
Seventh Grade Math Placement for Next School Year

Present School Year

Student's Name: Student

Grade Six Unit Test Average (Test average of 4 marking periods)	=	88	(45% of Summary Score)
Grade Six Cumulative Assessment **(Math 6)**	=	78	(25% of Summary Score)
MAP Assessment (MAP score out of 285 points)	=	234	(25% of Summary Score)
Work Habits/Study Skills Assessment	=	90	(5% of Summary Score)
Summary Score	=	**84**	(out of 100 points)

<u>Math Placement:</u> | *Algebra I Part 1*

Placement Cutoffs:
- *Pre-Algebra 7*:   Summary Scores from 0 – 82
- *Algebra I Part 1*:   Summary Scores from 83 – 100

Math 6 Student who qualified for Algebra I Part 1.
This is an actual student's placement sheet during the past 3 years with the name and dates redacted.

DATE

Dear Parent/Guardian of *Student*,

Below is the mathematics placement for your child, *Student*, for Next September. 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 *Student* a very successful year at UMS, academically, and social and emotionally.

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Math Placement Data Sheet
Seventh Grade Math Placement for Next School Year

Present School Year

Student's Name: Student

Grade Six Unit Test Average (Test average of 4 marking periods)	=	88	(45% of Summary Score)
Grade Six Cumulative Assessment **(Math 6)**	=	68	(25% of Summary Score)
MAP Assessment (MAP score out of 285 points)	=	234	(25% of Summary Score)
Work Habits/Study Skills Assessment	=	100	(5% of Summary Score)
Summary Score	=	**82**	(out of 100 points)

<u>Math Placement:</u> | *Pre-Algebra 7* |

Your child did not meet the criteria for Algebra I Part 1. However, your child's Summary Score is 3 or less points from the required Summary Score.   You may consider completing a waiver to have your child scheduled for Algebra I Part 1. The waiver form has been included in this mailing for your convenience. We request that you sign, indicating your request for the waiver, and return it to the Upper Middle School (UMS) Main Office by June 12th .

Placement Cutoffs:
- *Pre-Algebra 7*:   Summary Scores from 0 – 82
- *Algebra I Part 1*:   Summary Scores from 83 – 100

Math 6 Student did not Qualify for Algebra I Part 1 but who qualified for a Waiver.
This is an actual student's placement sheet during the past 3 years with the name and dates redacted.

DATE

Dear Parent/Guardian of *Student*,

Below is the mathematics placement for your child, *Student,* for Next September. 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 *Student* a very successful year at UMS, academically, and social and emotionally.

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Math Placement Data Sheet
Seventh Grade Math Placement for Next School Year

Present School Year

Student's Name: Student

Grade Six Unit Test Average (Test average of 4 marking periods)	=	86	(45% of Summary Score)
Grade Six Cumulative Assessment *(Math 6)*	=	62	(25% of Summary Score)
MAP Assessment (MAP score out of 285 points)	=	230	(25% of Summary Score)
Work Habits/Study Skills Assessment	=	90	(5% of Summary Score)
Summary Score	=	**79**	(out of 100 points)

<u>Math Placement:</u>   *Pre-Algebra 7*

Placement Cutoffs:
- *Pre-Algebra 7*:   Summary Scores from 0 – 82
- *Algebra I Part 1*:   Summary Scores from 83 - 100

Math 6 Student did not Qualify for Algebra I Part 1.
This is an actual student's placement sheet during the past 3 years with the name and dates redacted.

DATE

Dear Parent/Guardian of Student,

Below is the mathematics placement for your child, Student, for Next September. 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 Student a very successful year at UMS, academically, and social and emotionally.

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Math Placement Data Sheet
Seventh Grade Math Placement for Next School Year

Present School Year

Student's Name: Student

Grade: 06

Grade Six Unit Test Average (Test average of 4 marking periods)	=	96	(35% of Summary Score)
Iowa Algebra Aptitude Test	=	98	(20% of Summary Score)
MAP Assessment (Out of 285 points)	=	259	(20% of Summary Score)
Grade Six Cumulative Assessment **(Pre-Algebra 6)**	=	97	(20% of Summary Score)
Work Habits/Study Skills Assessment	=	100	(5% of Summary Score)
Summary Score	=	**96**	(out of 100 points)

<u>Math Placement:</u> | *Algebra I Honors* |

Placement Cutoffs:
- *Algebra I Part 1*:   Summary Scores from 0 – 86
- *Algebra I Honors*:   Summary Scores from 87 – 100

Pre-Algebra 6 Student who qualified for Algebra I Honors.
This is an actual student's placement sheet during the past 3 years with the name and dates redacted.

DATE

Dear Parent/Guardian of Student,

Below is the mathematics placement for your child, Student, for Next September. 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 Student a very successful year at UMS, academically, and social and emotionally.

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Math Placement Data Sheet
Seventh Grade Math Placement for Next School Year

Present School Year

Student's Name: Student

Grade: 06

Grade Six Unit Test Average (Test average of 4 marking periods)	=	84	(35% of Summary Score)
Iowa Algebra Aptitude Test	=	83	(20% of Summary Score)
MAP Assessment (Out of 285 points)	=	245	(20% of Summary Score)
Grade Six Cumulative Assessment **(Pre-Algebra 6)**	=	88	(20% of Summary Score)
Work Habits/Study Skills Assessment	=	100	(5% of Summary Score)
Summary Score	=	**86**	(out of 100 points)

Math Placement: | *Algebra I Part 1* |

Your child did not meet the criteria for Algebra I Honors. However, your child's Summary Score is 3 or less points from the required Summary Score. You may consider completing a waiver to have your child scheduled for Algebra I Honors. The waiver form has been included in this mailing for your convenience. We request that you sign, indicating your request for the waiver, and return it to the Upper Middle School (UMS) Main Office by June 12th .

Placement Cutoffs:
- *Algebra I Part 1*:   Summary Scores from 0 – 86
- *Algebra I Honors:*   Summary Scores from 87 – 100

Pre-Algebra 6 Student who did not Qualify for Algebra I Honors but who qualified for a Waiver.
This is an actual student's placement sheet during the past 3 years with the name and dates redacted.

DATE

Dear Parent/Guardian of Student,

Below is the mathematics placement for your child, Student, for Next September. 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 Student a very successful year at UMS, academically, and social and emotionally.

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Math Placement Data Sheet
Seventh Grade Math Placement for Next School Year

Present School Year

Student's Name: Student

Grade: 06

Grade Six Unit Test Average (Test average of 4 marking periods)	=	74	(35% of Summary Score)
Iowa Algebra Aptitude Test	=	82	(20% of Summary Score)
MAP Assessment (Out of 285 points)	=	244	(20% of Summary Score)
Grade Six Cumulative Assessment (**Pre-Algebra 6**)	=	87	(20% of Summary Score)
Work Habits/Study Skills Assessment	=	100	(5% of Summary Score)

Summary Score	=	**82**	(out of 100 points)

Math Placement: *Algebra I Part 1*

Placement Cutoffs:
- *Algebra I Part 1*:   Summary Scores from 0 – 86
- *Algebra I Honors*:   Summary Scores from 87 – 100

Pre-Algebra 6 Student who did not Qualify for Algebra I Honors but who qualified for a Algebra I Part 1.
This is an actual student's placement sheet during the past 3 years with the name and dates redacted.