

2014-2015

6th Grade Math Program Informational Meeting

Thursday, January 22, 2015

Mr. Michael Richards
Principal, LMS

Dr. Christopher Herte
Mathematics/Science Supervisor 5-8

Mrs. Georgianna Kichura
Asst. Principal, LMS



January 22, 2015

Montgomery Township School District

Agenda

- Common Core Standards
- Curriculum
- EnVision Math Program & materials
- Activities
- Placement Process
- Your questions



Mathematics Program

- Overview
- Resources
 - Extra help
 - Study Guides
 - EnVision online textbook and resources
 - Odyssey
- Extra-curricular & Math related activities
 - Math Competitions & Games
 - Mathcounts
 - Math League Contest (Feb. 24) –Math Teachers
 - Science League Contest -1-day contest (April/May)



Common Core Standards

- Aligned with college and work expectations
- Rigorous content and application of knowledge skills
- Built upon the strengths of current state standards
- Evidence and researched-based
- Informed by top-performing countries
- Assessed by NJ ASK in 2014 and PARCC in 2015
- Website:
 - [/http://www.corestandards.org/](http://www.corestandards.org/)



Common Core State Standards

Mathematics Grades 6-8

	Grade		
	6	7	8
Ratios and Proportional Relationships	<ul style="list-style-type: none">RatiosUnit rates	<ul style="list-style-type: none">Analyzing proportional relationshipsUse proportional relationships to solve multi-step percent and ratio problems	<ul style="list-style-type: none">Irrational numbersUse rational approximations of irrational numbers to compare sizes of irrational numbers
The Number System	<ul style="list-style-type: none">Operations including mult./divide fractionsThe system of rational numbers	<ul style="list-style-type: none">The system of rational numbersThe system of real numbers	<ul style="list-style-type: none">The system of real numbers
Expressions and Equations	<ul style="list-style-type: none">Arithmetic and algebraic expressionsReason & solve one-variable equations and inequalitiesAnalyze and represent quantitative relationships	<ul style="list-style-type: none">Use properties of operations to generate equivalent expressionsSolve real-life and mathematical problems using numeric and algebraic expressions and equations.	<ul style="list-style-type: none">Work with radicals and integer exponentsConnections between proportional relationships, lines, and linear equationsAnalyze & solve linear equations and pairs of simultaneous linear equations
Functions			<ul style="list-style-type: none">Function conceptsUse functions to model relationships between quantities
Geometry	<ul style="list-style-type: none">Solve real world problems of area, surface area, and volume	<ul style="list-style-type: none">Congruence and similarityAngles (supplementary, complementary, vertical, adjacent) and use to solve simple equations.Solve real world problems of area, surface area, and volume	<ul style="list-style-type: none">Congruence and similarityThe Pythagorean TheoremPlane and solid geometry
Statistics and Probability	<ul style="list-style-type: none">Variability and measures of central tendencySummarizing and describing distributions	<ul style="list-style-type: none">Situations involving randomnessRandom sampling to draw inferences about a populationDraw informal comparative inferences about two populationsDevelop, use, evaluate probability models	<ul style="list-style-type: none">Patterns of association in bivariate data

Adapted from Common Core State Standards for Mathematics from http://www.corestandards.org/assets/CCSSI_Math%20Standards.pdf accessed 2/15/11

Dr. Christopher Herte

Curriculum

- *How can I find out more about the curriculum?*
- The next few slides show how you can find the curriculum of any course with a few clicks from the District home page.



District Home

Select a School...

Parent Resources

Montgomery Township School District

Creating confident, compassionate, and successful learners

SEARCH

Home Board of Ed. Assessment, Curriculum, and Instruction Departments Parents/Community Staff Portal Strategic Plan Calendar

Quick Links

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- Job Opportunities
- Contact Info
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- Summer Enrichment

Schools

- High School
- Upper Middle
- Lower Middle
- Village
- Orchard Hill
- Public Curriculum Documents
- NJ Report Card Data
- Solar Energy Projects
- Staff Portal
- GCN Training



Welcome!

Headlines

Click Public Curriculum Doc.

2013 PTA Founders Day Nominations

The Montgomery School District PTAs requests nominations of teachers, administrators, parents, volunteers or community leaders to honor in this year's district-wide Founders Day Celebration on Tuesday, March 19, 2013 to be held in the Montgomery High School Commons from 4:30 pm - 6:00 pm. Click on title for more information.

Kindergarten Registration

Click on the title for additional information and forms.

2012-13 School Calendar

Click on title to view the calendar for 2012-2013

2013 - 2014 Budget Development

The Board of Education encourages the public to attend a series of public meetings that will focus on the development of the 2013-14 budget, which will



Upcoming Events

Today

7:00 PM [Board of Education Meeting](#)

Tomorrow

7:00 PM [MHS - Winter Choir Concert](#)

Friday

7:00 PM [MHS - Big Band Bash](#)

Saturday

7:30 AM [MHS - SAT](#)

January 30, 2013

[LMS - 6th Grade Math Finals](#)

January 31, 2013

[LMS - 6th Grade Math Finals](#)

February 5, 2013

Montgomery Township School District

SEARCH

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Board of Ed.

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Departments

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Staff Portal

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Calendar

Assessment and Curriculum

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- Contact Information

Montgomery Township School District

Assessment, Curriculum, and Instruction Update

Dear MTSD Community,

To view the public curriculum documents, [click here](#).

I am delighted to present the new link to the Montgomery Township Schools' curriculum site! Here you will find updated curricula, written collaboratively and based on the most recent NJ Core Curriculum Content Standards and the newly adopted Common Core National Standards for English Language Arts and Mathematics.

This purpose of this site is to communicate clearly articulated curricula across grade levels and content areas to teachers, parents and students. Placing the curriculum online enables teachers to continually revise and refine the curriculum, and it allows Montgomery Schools to share the educational program with the entire school community.

As you view the curricula, it is important to know that they are fluid documents. They represent a point in time. They differ in levels of completion, scope, and detail. You may find that there are fine edits to make and/or

Atlas

Browse

Montgomery Township School District

Atlas > Browse

Filter:

by School Type

by School

Lower Middle School

by Grade

by Subject

Mathematics

Type a Course Name

Type a Teacher Name

by Map Type

Reset

Browse

Now Viewing: Unit Calendar

Hide Empty Courses

School	Grade	Teacher	Subject	Course	Map Type	Year
Montgomery High School	High School	Collaboration	English Language Arts	11000 English Literature & Comp 9*	C	2012-2013
Montgomery High School	High School	Collaboration	English Language Arts	11500 English Literature & Comp 9 H*	C	2012-2013
Montgomery High School	High School	Collaboration	English Language Arts	12000 English Literature and Comp 10*	C	2012-2013
Montgomery High School	High School	Collaboration	English Language Arts	12500 English Literature & Comp 10 H*	C	2012-2013
Montgomery High School	High School	Collaboration	English Language Arts	13000 English Comp II & American Lit 11*	C	2012-2013
Montgomery High School	High School	Collaboration	English Language Arts	13500 English Comp & Amer Lit 11 H*	C	2012-2013
Montgomery High School	High School	Collaboration	English Language Arts	14100 Senior Seminar & Selected Shorts*	C	2012-2013
Montgomery High School	High School	Collaboration	English Language Arts	14200 Contemporary Literature(Seminar)*	C	2012-2013
Montgomery High School	High School	Collaboration	English Language Arts	14200 Senior Seminar & Contemp Lit*	C	2012-2013
Montgomery	Grade	Collaboration	English	14900 AP English	C	2012-

Click School & Select Lower Middle School

Click Subject & Select Mathematics

Then Click Browse

100%

6:13 PM 1/22/2013

Atlas > Browse

Filter:

by School Type
by School
Lower Middle School
by Grade
by Subject
Mathematics
Type a Course Name
Type a Teacher Name
by Map Type

Now Viewing: ☐ Hide Empty Courses

School	Grade	Teacher	Subject	Course	Map Type	Year
Lower Middle School	Grade 5	Collaboration	Mathematics	Math 5*	C	201
Lower Middle School	Grade 6	Collaboration	Mathematics	Math 6*	C	201
Lower Middle School	Grade 6	Collaboration	Mathematics	Pre - Algebra 6 Honors*	C	201

3 record(s) found.



Unit Calendar 2012-2013

Montgomery Township School District

Collaboration / Math 6* (C) / Grade 6 (Lower Middle School)

Wednesday, January 30, 2013, 12:42PM



Click on unit

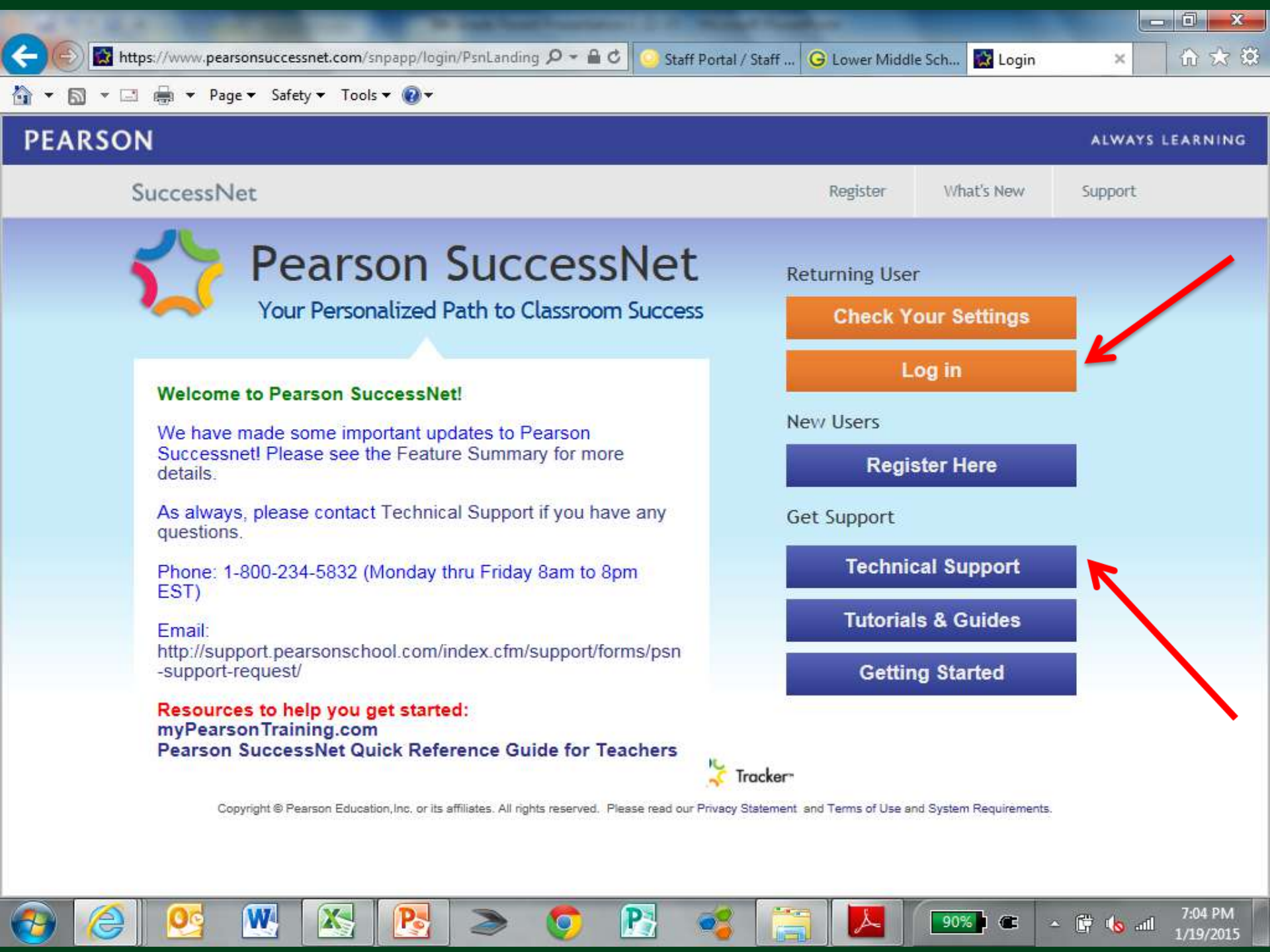
	Sep				Oct				Nov				Dec		Jan				Feb				Mar				Apr			May			Jun							
Unit:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
Topic 1: Numeration																																								
Topic 3: Operations with Decimals																																								
Topic 2: Variables, Expressions, and Properties																																								
Topic 4: Solving Equations																																								
Topic 5: Number and Fraction Concepts																																								
Topic 6: Decimals, Fractions, and Mixed Numbers																																								
Topic 7: Adding & Subtracting Fractions																																								
Topic 8: Multiplying Fractions & Mixed Numbers																																								
Topic 9: Dividing Fractions & Mixed Numbers																																								
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Topic 11: Two-Dimensional Figures																																								
Topic 12: Ratios, Rates, & Proportions																																								
Topic 13: Solving Proportions																																								
Topic 14: Understanding Percent																																								
Topic 15: Equations and Graphs																																								
Topic 16: Measurement																																								
Topic 17: Perimeter and Area																																								
Topic 18: Volume and Surface Area																																								
Topic 19: Data & Graphs																																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	

Envision Textbook

- *How can I access the EnVision textbook from home?*
- The next few slides show how you can access the EnVision textbook and materials from:

www.pearsonsuccessnet.com





PEARSON

ALWAYS LEARNING

SuccessNet

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What's New

Support



Pearson SuccessNet

Your Personalized Path to Classroom Success

Welcome to Pearson SuccessNet!

We have made some important updates to Pearson Successnet! Please see the Feature Summary for more details.

As always, please contact Technical Support if you have any questions.

Phone: 1-800-234-5832 (Monday thru Friday 8am to 8pm EST)

Email:
<http://support.pearsonschool.com/index.cfm/support/forms/psn-support-request/>

Resources to help you get started:
myPearsonTraining.com
[Pearson SuccessNet Quick Reference Guide for Teachers](#)

Returning User

[Check Your Settings](#)

[Log in](#)

New Users

[Register Here](#)

Get Support

[Technical Support](#)

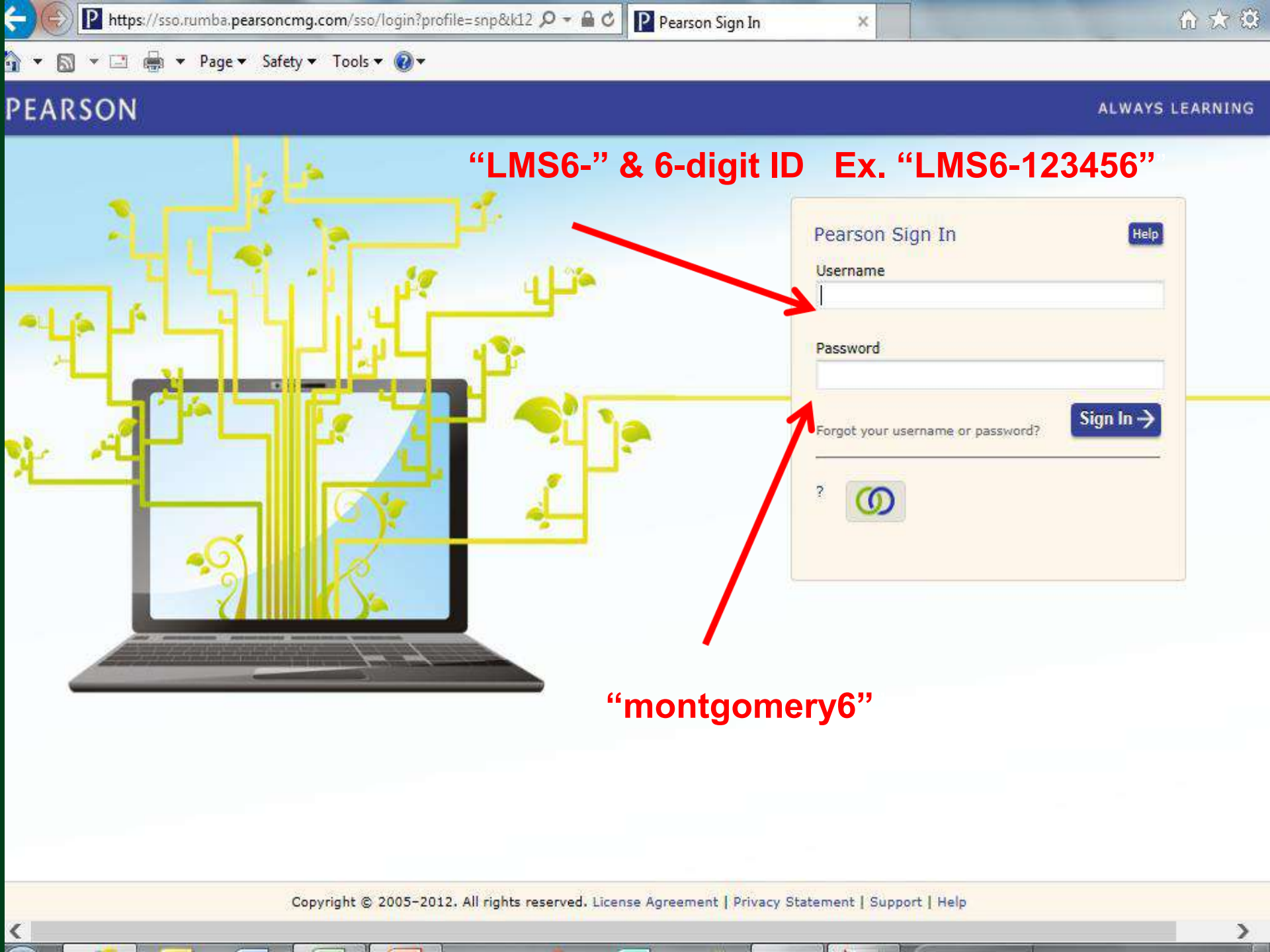
[Tutorials & Guides](#)

[Getting Started](#)



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7:04 PM
1/19/2015



“LMS6-” & 6-digit ID Ex. “LMS6-123456”

Pearson Sign In

Help

Username

Password

Forgot your username or password?

Sign In →

?



“montgomery6”



Hello, Christopher



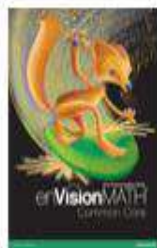
enVisionMATH

enVisionMATH Common Core G6



Explore

My Books



Mathematics



Open Book

Click to open book

From My Teacher



No Messages

PEARSON

Welcome Christopher Robin

Grade 6

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Mixed Problem Solving:
Math and Literature

7-7 Problem Solving:
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Topic 7 Test

Topic 7 Reteaching

► Topic 8 - Multiplying
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Reteaching

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- ▶ Topic 6 - Decimals, Fractions, and Mixed Numbers
- ▼ Topic 7 - Adding and Subtracting Fractions and Mixed Numbers

7-1 Adding and Subtracting: Like Denominators

7-2 Least Common

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Lesson 7-1



6.NS.1 Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem....

Adding and Subtracting: Like Denominators

How can you add fractions with like denominators?

Greg ate $\frac{1}{8}$ of a quesadilla with peppers and $\frac{1}{8}$ of a same-size quesadilla with beans. How much of one whole quesadilla did he eat?

Choose an Operation Add the fractional parts.



Another Example

How can you subtract fractions with like denominators?

Step 1

Find $\frac{5}{8} - \frac{1}{8}$.

The fractions have like denominators. Subtract the numerators. Write the difference over the like denominator.

$$\frac{5}{8} - \frac{1}{8} = \frac{4}{8}$$

The difference is $\frac{4}{8}$.

Step 2

Simplify the answer.

The GCF of 4 and 8 is 4.

$$\frac{4 \div 4}{8 \div 4} = \frac{1}{2}$$

$$\text{So, } \frac{5}{8} - \frac{1}{8} = \frac{4}{8} = \frac{1}{2}.$$

Guided Practice*



Lesson

7-1



Common Core

6.NS.1 Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem....

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So, $\frac{5}{8} - \frac{1}{8} = \frac{4}{8} = \frac{1}{2}$.

Envision Textbook

- *What resources in EnVision are available and how do I access them?*
- The next two slides show how you can access extra practice pages. Practice pages (PDF files) are located in **Student Resources** for each section.





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▶ Lesson 8-3 Multiplying Fractions

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▶ Lesson 8-5 Problem Solving: Multiple-Step Problems

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▶ Topic 13 - Solving

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Lesson 8-4

Common Core

6.NS.1 Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. ...

Multiplying Mixed Numbers

How can you find the product of mixed numbers?

A small can of tomatoes weighs $7\frac{1}{3}$ ounces.

How much do $4\frac{1}{2}$ cans of tomatoes weigh?

Find $4\frac{1}{2} \times 7\frac{1}{3}$.



extra practice

Another Example

How can you use the Distributive Property to multiply a whole number and a mixed number?

Find $3 \times 4\frac{2}{15}$.

Step 1

Estimate:

$$3 \times 4 = 12$$

Step 2

Break apart the mixed number; use the Distributive Property:

$$\begin{aligned} 3 \times 4\frac{2}{15} &= 3 \times (4 + \frac{2}{15}) \\ &= (3 \times 4) + (3 \times \frac{2}{15}) \end{aligned}$$

Step 3

Multiply each part and add:

$$\begin{aligned} &= 12 + \frac{6}{15} \\ &= 12\frac{6}{15} \end{aligned}$$

The answer, $12\frac{6}{15}$, is close to the estimate, 12, so the answer is reasonable.



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- P

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- Topic
- Topic Two
- Topic and
- Topic

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Note
Book

http://media.pearsoncmg.com/curriculum/math/envision2012/pdf/cc6_NS2_115.pdf
⌕ ↺ ✕

File Edit Go to Favorites Help

Name _____

Multiplying Mixed Numbers

Find each product. Simplify if possible.

1. $3\frac{1}{2} \times 1\frac{2}{3}$ _____

2. $1\frac{1}{8} \times 2\frac{1}{3}$ _____

3. $7 \times 1\frac{1}{2}$ _____

4. $2\frac{1}{6} \times 1\frac{1}{5}$ _____

5. $3\frac{1}{6} \times 18$ _____

6. $1\frac{1}{8} \times 2\frac{1}{2}$ _____

7. $1\frac{2}{3} \times 2\frac{1}{2}$ _____

8. $10 \times 1\frac{1}{3}$ _____

9. $2\frac{4}{5} \times 3\frac{1}{3}$ _____

Evaluate each expression for $S = 1\frac{4}{5}$.

10. $2\frac{1}{3}S$ _____

11. $3\frac{3}{4}S$ _____

12. $5\frac{1}{6}S$ _____

Use the table to answer the questions.

13. If Berkeley receives $1\frac{1}{4}$ times its average January rainfall, how much rain will it receive?

14. How much rain will Berkeley receive if it is $2\frac{1}{3}$ times the October average?

15. Which month has about twice the rainfall as April?

16. Jessie stacked photographs of 6 zoo animals on top of each other to create a display. Each photo is $14\frac{1}{4}$ in. high. How high is the display?

A $84\frac{3}{4}$ in.

B $85\frac{1}{2}$ in.

C $86\frac{3}{4}$ in.

D 87 in.

17. **Writing to Explain** Explain how you would find $2 \times 2\frac{1}{3}$ using the Distributive Property.

Average Rainfall in Berkeley, California

January	$3\frac{7}{10}$ in.
April	$1\frac{4}{5}$ in.
October	$1\frac{1}{2}$ in.

Practice 8-4

Topic 8 37

Envision Textbook

- *How can I access the Reteaching pages?*
- The Reteaching pages give a brief review and extra practice. There is one Reteaching page in each Unit. You access these from the **Table of Contents**.





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Topic 7 Reteaching



Set A, pages 162–163

Find $\frac{2}{9} + \frac{1}{9}$.

Find $\frac{7}{9} - \frac{1}{9}$.

The fractions have like denominators. Add or subtract the numerators.

$$\frac{2}{9} + \frac{1}{9} = \frac{3}{9}$$

$$\frac{7}{9} - \frac{1}{9} = \frac{6}{9}$$

Use the GCF, 3, to simplify.

$$\frac{2}{9} + \frac{1}{9} = \frac{3}{9} = \frac{1}{3}$$

$$\frac{7}{9} - \frac{1}{9} = \frac{6}{9} = \frac{2}{3}$$

Remember that when the denominators are the same, you add or subtract only the numerators.

Find each sum or difference. Simplify.

1. $\frac{2}{5} + \frac{1}{5}$

2. $\frac{9}{10} - \frac{7}{10}$

3. $\frac{7}{8} + \frac{2}{8}$

4. $\frac{12}{13} - \frac{8}{13}$

Set B, pages 164–168

Find the least common multiple (LCM) of 5 and 6.

List multiples of each number.

5: 5; 10; 15; 20; 25; **30** ... 6: 6; 12; 18; 24; **30** ...

The LCM is 30. Use this LCM as the least common denominator (LCD) to calculate below.

$$\begin{array}{r} \frac{3}{5} = \frac{18}{30} \\ + \frac{1}{6} = + \frac{5}{30} \\ \hline \frac{23}{30} \end{array}$$

$$\begin{array}{r} \frac{3}{5} = \frac{18}{30} \\ - \frac{1}{6} = - \frac{5}{30} \\ \hline \frac{13}{30} \end{array}$$

Remember that the LCM of the denominators in a set of fractions is the LCD for that set of fractions.

Find the LCM for each set of numbers.

1. 10, 20

2. 3, 6

3. 8, 10

4. 2, 3, 5

Find each sum or difference. Simplify.

5. $\frac{1}{2} + \frac{1}{7}$

6. $\frac{1}{3} + \frac{2}{4}$

7. $\frac{3}{4} - \frac{1}{3}$

8. $\frac{5}{6} - \frac{1}{2}$

Envision Textbook

- *How can I access the Topic Tests?*
- The next slide shows how you can access the Topic Tests. Topic Tests are a great practice in preparing for the End of Year Assessment as well as preparing for a Unit Test.





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Topic 7

Test



ASSESSMENT

1. A buttonhole should be $\frac{1}{16}$ -inch wider than the button. How wide should a buttonhole be made to fit a button that is $\frac{14}{16}$ inches wide? (7-1)
 - A $\frac{15}{32}$
 - B $\frac{13}{16}$
 - C $\frac{14}{16}$
 - D $\frac{15}{16}$
2. What is the least common multiple of 5, 8, and 16? (7-2)
 - A 40
 - B 80
 - C 120
 - D 640
3. The table lists the North American records for barometric pressure. What is the difference between the highest and
4. Sabrina tried to tighten a $\frac{1}{8}$ -inch bolt with a $\frac{3}{16}$ -inch wrench. What is the difference in measure between the bolt and the wrench? (7-3)
 - A $\frac{1}{16}$ inch
 - B $\frac{1}{8}$ inch
 - C $\frac{1}{4}$ inch
 - D $\frac{5}{16}$ inch
5. What is $7\frac{6}{15} + 4\frac{4}{5}$? (7-5)
 - A $11\frac{1}{5}$
 - B $11\frac{2}{3}$
 - C $12\frac{2}{15}$
 - D $12\frac{1}{5}$
6. Hotdogs are sold in packages of 10 and hotdog buns are sold in packages of 8.

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.*



Montgomery Township School District

Creating confident, compassionate, and successful learners

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Headlines

MHS Senior Named 2015 Intel Semifinalist

MHS senior, David Fan, was named as a 2015 Intel Semifinalist. Congratulations David!

Harassment, Intimidation and Bullying (HIB) Grade Report

The New Jersey Department of Education has posted school and district HIB grades as stated in the Anti-Bullying Bill of Rights Act. These grades were determined by a district self-assessment released by the New Jersey Department of Education Commissioner.

2015 - 2016 Budget Development Calendar

Click on link to view the 2015 - 2016 budget development calendar.

Kindergarten Registration

Click on title to view registration information for Kindergarten for the 2015-2016 school year.

Winter 2014-15 Pupil Services Newsletter

Physics Presentation at Board of Ed Meeting

At the December 16, 2014 a presentation was made to the community on the MHS



Upcoming Events

Today

Martin Luther King, Jr. Day - Schools Closed

January 27, 2015

7:30 PM Board of Education Meeting

January 31, 2015

2015 Cougar Science Olympiad

February 4, 2015

4:30 PM PTAC Roundtable

February 10, 2015

7:30 PM Board of Education Meeting

February 13, 2015

Staff Development - No School

February 16, 2015

Presidents' Days - Schools Closed

February 17, 2015

Presidents' Days - Schools Closed

Assessment, Curriculum, and Instruction

PARCC Resources

- [Frequently Asked Questions](#)
- [A Summary of PARCC](#)
- [A New Vision of Assessment](#)
- [PARCC Parent Letter from the Director of Data, Assessment and Accountability](#)
- [Curriculum & Instruction](#)
- [Assessment & Accountability](#)
- [Enrichment](#)
- [Common Core](#)
- [NGSS](#)



PARCC Resources

During the 2014-2015 school year, students in grades 3-11 will participate in an online assessment called The Partnership for Assessment of Readiness for College and Careers (PARCC). PARCC is aligned with the Common Core State Standards and 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 Montgomery Township School District was fortunate to participate in a PARCC Field Test during the 2013-2014 school year. In total, approximately 350 students grades 3-11 participated in this field test. Students completed small portions of the assessment in either mathematics or language arts literacy during the performance based assessment or end of year assessment. Through this experience participating students had a sneak preview of the format and content, teachers had the opportunity to administer this online assessment, our Internet processing speed, and our technology support staff was able to monitor our selected tool, the Chromebook. In addition, our teachers were able to observe students interacting with a computer-based test. The feedback we gathered allowed us to better plan for full implementation this year.

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 in Spring 2015, in March and May.

[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.

[PARCC Timeline Perspective](#)

To learn more about the history and development of the PARCC Assessment, this link will show the first steps beginning in June 2010 and explains the development of the assessment.

[PARCC Glossary of Terms](#)

This document will define and explain some of the important PARCC terms. It is more information than a parent may need to know but does explain Evidence-Based Selected Responses (EBSR), Summative vs. Formative Assessments, Performance Level Descriptors (PLD) used for scoring, and Performance Based Assessment (PBA). If you want to know the details and some of the jargon associated with this assessment, the glossary will provide those definitions.

[PARCC Accessibility Features and Accommodations Manual](#)

Odyssey

- *How can I access Odyssey?*
- The next slide provides the login information for Odyssey. Odyssey is a great resource for enrichment, extra practice, and remediation. A learning path is set for each student based on their Fall MAP test. Additionally, students can explore and do other work/learn other lessons.
- Learning path also set after Spring MAP.



www.thelearningodyssey.com



CompassLearning®
Guided by research. Propelled by fun.

User Name

Password

School

Log In

[Forgot Password](#)

Type 6-digit ID

Type 6-digit ID

Type "MTSD"

[Support](#) [Company](#) [Contact](#)

Activities

- *What activities are available?*
- Mathcounts
- Math League Contest
(See Math Teacher for info available shortly 2/24)
- Science League Contest (Contest in April)
(E-Alert will be sent for sign ups)



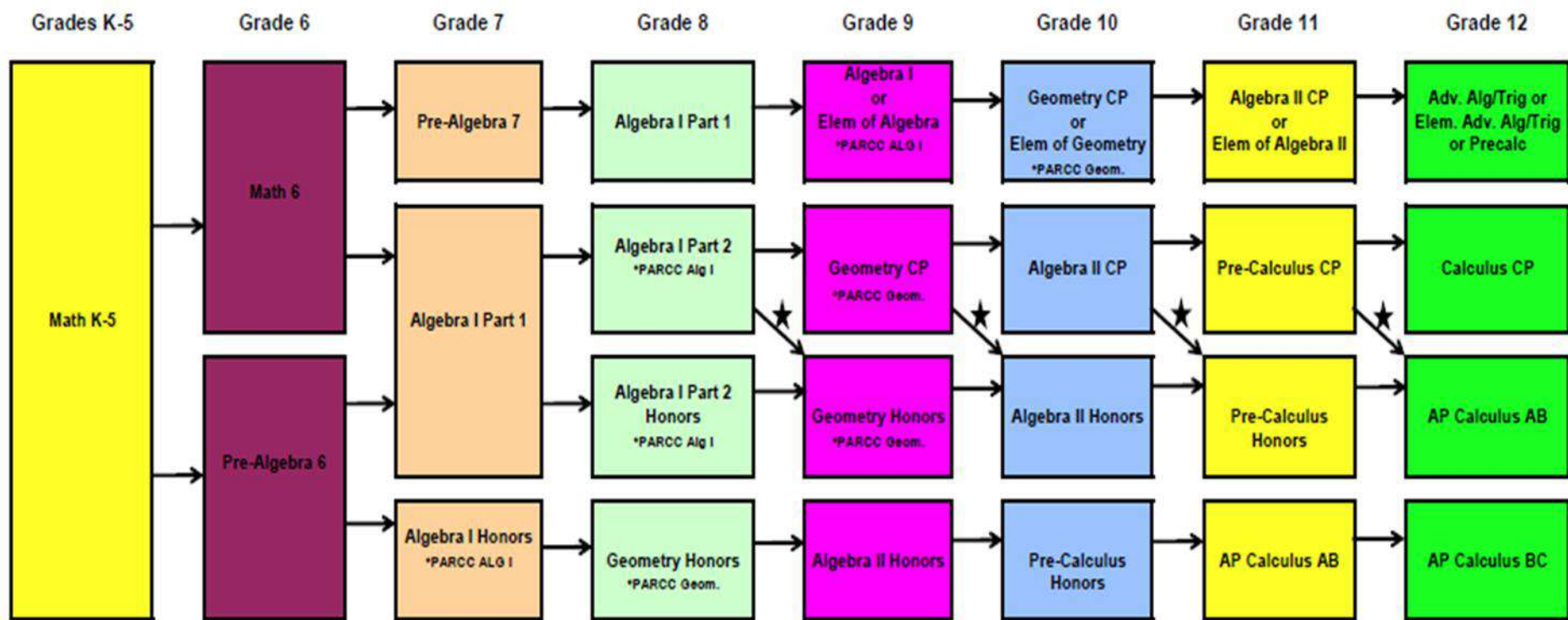
Math Sequences

- *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

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 one and multi-step equations and inequalities, ratio, proportions, percents, probability, and geometry.



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)



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.



Math Placement

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



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

- *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.



Placement Criteria for Algebra I Honors

- *Unit Test averages (35%)* the four 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.



Unit Test Averages

- Unit tests are common assessments for all students in grade 6 in the same course
- Concepts are reviewed. The end of chapter tests are a great resource for practice and review.



Cumulative Assessment

- Scheduled for **March 30th** and **March 31st**
- Cumulative Assessment is a common assessment for all students in their course.
- Concepts are reviewed and a review packet is distributed to students
- Important for students to pull all concepts together



Measures of Academic Progress -MAP

- Scheduled for **April 20, 21**
- Computerized adaptive test
- Untimed assessment
- Sets learning paths for Odyssey
- Charts your child's academic growth from year to year
- The information helps to guide instruction and to make placement decisions



Iowa Algebra Aptitude Test

- Scheduled for **April 30th (Make ups 5/1)**
- Helps determine the readiness of students for Algebra I Honors
- Four sections, each section is timed and takes 10 or less minutes to complete.
- Total of 63 questions, calculators may not be used.



Work Habits/Study Skills

- *What are the Work Habits/ Study Skills?*



Work Habits/ Study Skills

- Reviewed with students
- Based on a District developed rubric



Mathematics Work Habits /Study Skills Assessment– Grades 5 & 6

Criteria	4 points	3 points	2 points	1 point
1- Completes assignments thoroughly.	Assignments are consistently attempted and complete with necessary work shown i.e. with few exceptions	Assignments are frequently attempted and complete with necessary work shown i.e. At least 4 days/week	Assignments are occasionally attempted and complete with necessary work shown i.e. at least 3 days/week OR Assignments are attempted 4 or 5 days/wk without necessary work shown.	Assignments are rarely or never attempted; when attempted, no work is shown.
2- Comes to class prepared with books, materials and assignments.	With few exceptions	At least 4 days/week	At least 3 days/week	From 0- 2 days/week
3- Utilizes and maintains a mathematics journal/notebook	Consistently	Frequently	Occasionally	Rarely/ Never
4- Demonstrates ability to work independently when appropriate	Consistently	Frequently	Occasionally	Rarely/ Never
5- Solicits academic assistance when appropriate	Consistently seeks appropriate academic assistance.	Frequently seeks appropriate academic assistance.	Occasionally seeks appropriate academic assistance.	Rarely/ Does not seek appropriate academic assistance.
6- Demonstrates ability to work effectively in groups	Consistently cooperates <i>and</i> contributes to group effort	Consistently cooperates <i>or</i> contributes to group effort	Occasionally cooperates <i>or</i> contributes to group effort	Rarely cooperates <i>or</i> contributes to group effort
7- Demonstrates a positive attitude when faced with an intellectual challenge	Consistently	Frequently	Occasionally	Rarely/ Never
8- Demonstrates problem solving skills	Consistently applies a systematic approach to problem solving	Frequently applies a systematic approach to problem solving	Occasionally applies a systematic approach to problem solving	Rarely or Never applies a systematic approach to problem solving
9- Reviews and checks work	Consistently looks back to check reasonableness of work	Frequently looks back to check reasonableness of work	Occasionally looks back to check reasonableness of work	Rarely or never looks back to check reasonableness of work
10-Demonstrates consistency in performance	Consistently	Frequently	Occasionally	Rarely/ Never

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 21**. 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 2015-2016

May 2015

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 4 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 2015-2016

May 2015

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 4 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 21** 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 5, 2015**.
- There will be **no proficiency testing** over the summer.



Placement Timeline



- **March 30th , 31st** - Cumulative Assessment (Grade 6)
- **April 20 & 21** -MAP Math Testing
- **April 30th (5/1 Makeups)** - IOWA Algebra Aptitude Test
- **May 21** - Placement information mailed from LMS
- **June 5th** - Waiver form deadline to be submitted to UMS
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.



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