

NEW Manufacturing Alliance
MATH COUNCIL MEETING MINUTES

FVTC

November 14, 2017

ATTENDEES: **Andy Bushmaker**-KI, **Cyndi Cantwell**-Green Bay Area Public Schools, **Paige Dorn** – Merrill Middle School, **Chad Janowski** – Einstein Project, **Doug Schneekloth** - Bonduel High School, **Joe Turner** – De Pere High School, **Dave Witzeling**- Bay View Middle School, **Erin Van Camp** – Brillion High School, **Ann Franz**-NEWMA

Topic 1: Discuss how math teachers are using the Get Real Math (GRM) Videos in the classroom and response from student. Is GRM being seen as a tool for ACP?

The following schools have registered on the Get Real Math portion of the Alliance’s website:

Appleton Central High School	Loganville Middle School
Appleton East High School	Marinette Middle School
Baldwin Woodville School District	McKinley Academy
Bay Port High School	Parkview Middle School
Bay View Middle School	Pulaski Community Middle School
Cameron Middle School	Sheboygan Falls High School
Carolina Springs Middle School	Southern Door Middle School
Clintonville High School	St. Mary Catholic Middle School
Howards Grove High School	Wabeno Middle & High School
Kimberly Middle School	

Two of the schools are outside of Wisconsin, which are in bold (North Carolina and Georgia). The math teachers shared how they are using them in the classroom and do feel that they are a tool schools can use for ACP. The high school educators attending the meeting would like to have more videos written at a high school level math.

Topic 2: Discuss 2017 Get Real Math (GRM) Videos & Premiere held on 10/3/17

85 different schools attended the Premiere with over 200 people in attendance. Members of the Math Council enjoyed the networking reception and variety of the schools and companies in attendance. One suggestion was to have the lesson plans on the cocktail table prior to going into the Meyer Theatre. All agreed that Pete Petoniak does a great job as the event’s emcee. There was a suggestion of moving the time of the event to 5 p.m. instead of 5:30 p.m. Members agree the earlier timeframe may encourage more to attend. Merrill Middle School won for the third year in a row!

The videos featured at the premiere covered the following Common Core Skills that have not been addressed in past Get Real Math videos):

- **6.EE.2** Write, read, and evaluate expressions in which letters stand for numbers.
- **6.EE.6** Use variables to represent numbers and write expressions when solving a real-world
- **7.EE.4** Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.
- **6.NS.3:** Fluently add, subtract, multiply and divide multi-digit decimals using the standard algorithm for each operation.

- Using algebraic methods to solve video question number 4 and use of extension activities would allow the following high school standards to be included:
 - **A.SSE** Seeing Structure in Expressions
 - **A.CED** Creating Equations
 - **Math Modeling**

Ann will be emailing all math teachers in the region the next 3 new Get Real Math videos on 12/1/17. She will also be announcing the math department that won \$250 award from the schools that registered on the website.

Topic 3: Discuss topics for 2018 Get Real Math

Top choices for skills to be featured in future videos from Spring 2018 meeting:

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|----------------------|---------------------------------------|
| ➤ Quadratics | ➤ Congruence |
| ➤ Statistics | ➤ Modeling – possibly a sales example |
| ➤ Mean, median, mode | ➤ Cost equations |
| ➤ Trig | ➤ Linear programming |
| ➤ Transformations | ➤ Histogram |

Members were asked to document when they have a math problem that they have in class that they would like to see a Get Real Math problem be created in the future. At the February Math Council meeting, math teachers will report out what they have documented over the previous months.

Topic 4: Upgrade for the Alliance’s website for the GRM page

There was discussion on streamlining the website to not have as many topics listed. Ann will reach out to the website designer about the issue of not being able to use the keyword search tool. All agreed that the enhancements made to the website from the suggestions made at the last Math Council meeting were beneficial.

Topic 5: Promotion of GRM to math teachers and review marketing piece

Ann sent out informational Get Real Math postcards in early May 2017 to middle and high school math teachers from throughout northeast Wisconsin. Promotion is needed to math teachers and school counselors on how Get Real Math can be utilized for ACP. There is discussion in having high school math students attend the October 24, 2018 Manufacturing First Expo to talk to career speakers about how they use math in the workplace. Schools that participate in the Get Real Math Premiere will be invited to attend the Expo.

Topic 6: Get Real Math partnership with the Einstein Project, including the creation of math kits

The Alliance is interested in working with the Einstein Project in developing hands-on math kits. NWTC has developed their own math kit. Chad Janowski will contact Rachel Johnson of NWTC to learn more about their math kit and see how it could be utilized with the Get Real Math videos. It might be helpful to not develop math kits from past Get Real Math videos, but instead focus on new videos being made in 2018. The KI Ruckus video that the Math Council watched at the meeting may be a good start for the math kits, in which students measure other center of gravity in things found in the classroom. Members thought that the math kit should be designed around lessons that would be used throughout a 2-4 week period of time.

Topic 7: Next steps

Next meeting will be held in the February 2018. Meeting date will be finalized once companies are identified for the 2018 Get Real Math videos.