

Middle School Math Community

October 17, 2012

2011-2012 Math Community Progress

- Aligned curriculum with core standards
- Reviewed MCAS and compared to curriculum alignment
- Anything else?

What's ahead this year and next?

- Establish Math Workshop as **intervention model** at the middle level
 - Serves as **Tier I** instruction for all students
 - Provides built-in opportunities for **Tier II** intervention
 - Differentiates learning for all

What's ahead this year and next?

- Check common core alignment and identify gaps
- Develop grade level units of study
- Revise midterm and final exams
- Develop common unit assessments
- Collect data to inform instruction
- Establish Google Docs Group to share resources

Why do we need an intervention model?

% Advanced + Proficient				
Grade	2011 ELA	2011 Math	2012 ELA	2012 Math
5	84%	79%	78%	78%
6	83%	75%	85%	78%
7	88%	61%	86%	64%
8	90%	61%	91%	67%
10	94%	86%	94%	89%

Guiding Principles for Mathematics

1. **Learning** - Mathematical Ideas should be explored in ways that stimulate curiosity, create enjoyment of mathematics, and develop depth of understanding.

2. **Teaching** - An effective mathematics program is based on carefully designed set of content standards that are clear and specific, focused, and articulated over time as a coherent sequence.

Guiding Principles for Mathematics

3. **Technology** - Technology is an essential tool that should be used strategically in mathematics education.

4. **Equity** - All students should have a high quality mathematics program that prepares them for college and a career.

Guiding Principles for Mathematics

5. **Literacy Across the Content Areas** - An effective mathematics program builds upon and develops students' literacy skills and knowledge.

6. **Assessment** - Assessment of student learning in mathematics should take many forms to inform instruction and learning.

Common Core Mapping Guides the Development of Units of Study

	Grade 6	Grade 7	Grade 8
September/ October	Number Systems, Expressions/Equations	Number Systems, Integers, Expressions/ Equations	
November/ December	Number Systems	Rational Operations Ratio/ Proportions	Expressions/ Equations
January/ February	Ratios/ Proportions	Expressions/ Equations Geometry	Linear Equations Similar Figures
March/April	Geometry, Statistics/ Probability	Area/ Volume Angles	Proportions/ Linear Equations Functions Geometry Statistics/ Probability
May/June		Ratio / Proportion	

Understanding Math Workshop

wrsdcurriculum.net/Planning_MS_Math_Workshop.html

- From the Prezi:
 - What is it? (video: Dr. Nicki)
 - Description and overview
 - Three scenarios
 - Basis for a workshop model (article)
 - PowerPoint: Get Connected
 - Math Matters: Designing a Math Workshop
 - Structure of a math class
 - Sixth grade video
 - Conclusion/reflection