

# CLINTON PUBLIC SCHOOL

## Math Program Recommendation

March 2013

# Overview

- Process
- Research
- Program Review
- Evaluation Criteria
- Outcome/Recommendation

# Process

- Curriculum rewrites
  - K-2 in 2010-2011
  - 3-5 in 2011-2012
  - 6-8 in 2012-2013
- Procure program samples in alignment with standards and curriculum
- Utilize program samples across units and topics
- Examine, review and rate programs

# National Math Advisory Panel Report

- Review of over 16,000 research studies
- Resulted in recommendations including:
  - Streamline curriculum, coherent progression with an emphasis on topic mastery
  - Schools should prepare greater numbers of students for algebra by 8<sup>th</sup> grade
  - Focus on critical foundations for algebra with knowledge of fractions the most important

# National Math Advisory Panel Report

- Equal importance placed on conceptual understanding, computational & procedural fluency, and problem solving
  - Develop immediate recall of math facts
  - Explicit instruction with multiple models increases student learning
  - Exclusively “teacher centered” or “student centered” approaches are not supported by research
- Common Core Standards based on these tenets

# Program Review

- K-6 teachers
- Background information/best practices
- Evaluate programs against pre-determined criteria
- Rank programs
- Determine best match to curriculum and instructional approach

# Evaluation Criteria

- Rubric developed according to Panel Report
- Criteria weighted for significance
- Contains criteria across range of areas
  - Accuracy
  - Standard alignment
  - Logical progression
  - Instructional approach
  - Available supports for differentiation

# Programs Reviewed

- enVision Math, K-6
  - Pearson
- Go Math, K-6
  - Houghton Mifflin Harcourt
- Math Expressions, K-6
  - Houghton Mifflin Harcourt
- My Math, K-5
  - McGraw Hill

# Results

	EnVision	Go Math	Math Expressions	My Math
K	46.5	<b>93</b>	24.25	87
1	44	<b>93.25</b>	39	92
2	37.25	79.5	18.25	<b>87.5</b>
3	71	86	53.75	<b>91.25</b>
4	67.7	<b>75.7</b>	66.2	73.5
5	44	<b>98</b>	62.8	65.2
6	84.3	<b>86.3</b>	54.3	----

# Teacher Feedback – Go Math

- More cross curricular opportunities
- Well aligned to CCSS
- Strong assessment component
- Instructional experiences thorough
- Daily plans connect previous and future learning
- Most user friendly (teacher and student)

# Outcome

- Go Math rated highest in majority of grades
- Aligned with CCSS and National Math Advisory Panel
- Structured sequentially with focus on topic mastery
- Provides balance between teacher and student centered instruction

# Recommendation

- Adopt Go Math in grades K-5 based on evaluation results
- Delay 6<sup>th</sup> grade decision
  - Complete curriculum revision
  - Examine programs designed from a middle school perspective
  - Comparison between programs structured K-6 and 6-8