

Pocantico Hills Math Textbook Adoption

July 10, 2013

Administration

Valencia F. Douglas, Superintendent

Jay Scotto-Friedman, Assistant
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- Valencia Douglas
- Stan Steele
- Adam Brown

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- Amanda Franco
- Nancy Occhicone
- Lory Rollman
- Terry Hongell
- Tina Hoyt
- Liz Lapicki

Tina Domato
Debbie O'Neill
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Consulted With:
Lisa Levy
Michelle Fitzpatrick
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Background

- 2006: *Growing with Math* adopted K-5
- 2010: *Match Connects* resources purchased for grade 5 to temporarily fill gaps created by *Growing with Math*

Since then:

- **Integrated Algebra** has been taught to all grade 8 students since 2011
- **Common Core Standards** now raise the bar even higher for all students in all grades
- **Principles Vision Committee** developed Guiding Principles and Essential Skills to inform decisions

Guiding Principles

- The Common Core Standards are only the first step toward academic achievement and student growth.
- Technology should be a tool that supports the growth of reasoning skills and critical thinking.
- Joyful and passionate teaching and learning should set the tone for our school environment.
- Collaborative teams must promote personal accountability, broad skill exposure, and cohort understanding and acceptance.
- Perseverance and determination are essential characteristics of student growth and should be fostered thoughtfully and with support.
- Community partnerships provide opportunities to promote communication and global awareness.
- A strong sense of ethics must ultimately come from within, and we must develop and nurture that growth.

Adoption Process

- Committee met to discuss values for selection in the context of our Guiding Principles, including:
 - Pedagogy
 - Rigor
 - Problem-solving
 - Communication
 - Differentiation
 - Technology
 - Professional development

Adoption Process (cont'd)

- Received presentations from three major vendors
- Discussed strengths and concerns for each program and implementation
- Made recommendation to the Superintendent for consideration

Program Choices

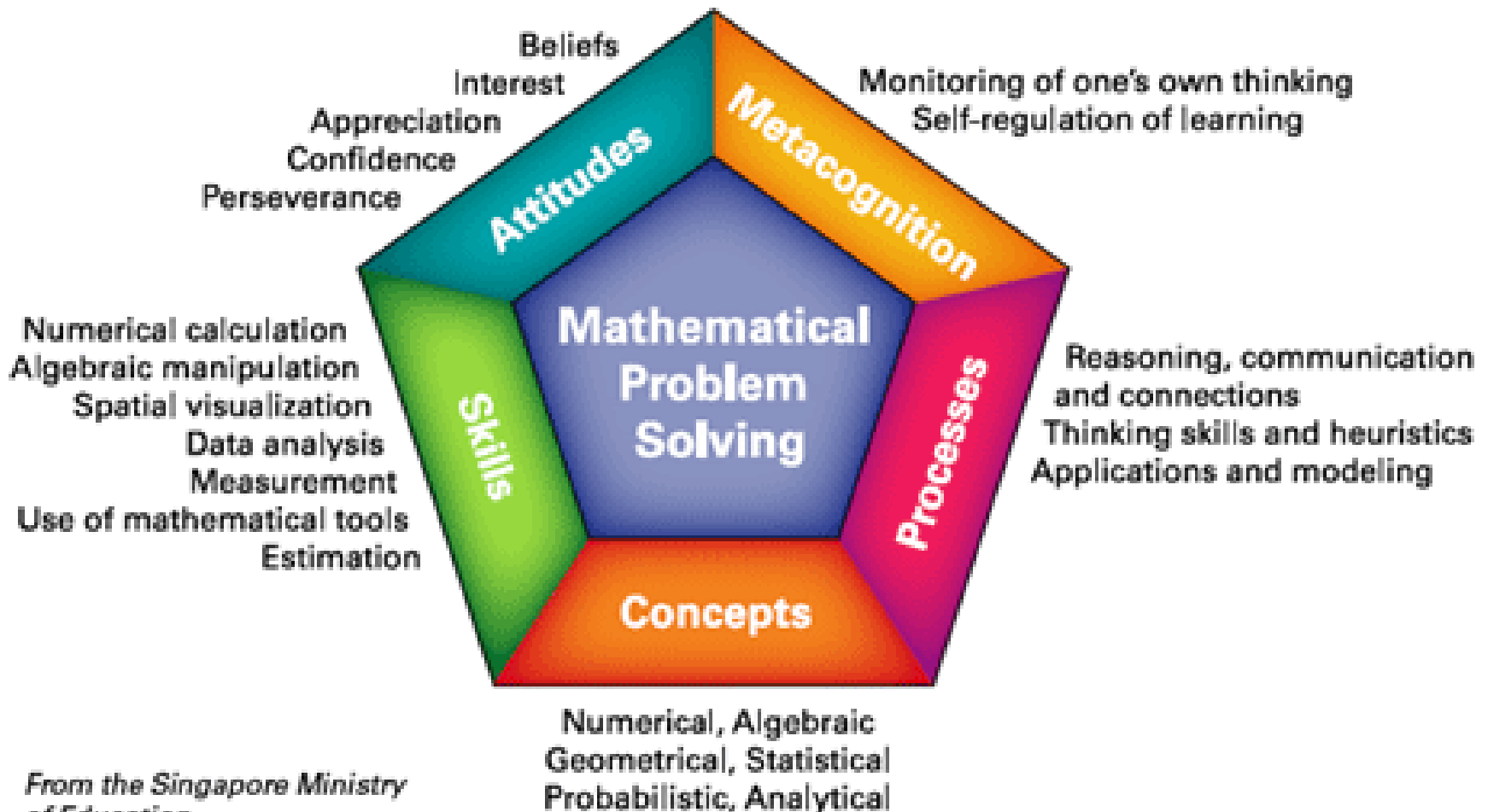
- We evaluated the three math programs adopted by our partner districts within the last two years:
- ***Primary Mathematics*** (Marshall Cavendish/ Singapore Math), with ***Math Buddies*** (Marshall Cavendish) - BRIARCLIFF
- ***Math in Focus*** (Marshall Cavendish/ Houghton Mifflin Harcourt) – PLEASANTVILLE
- ***enVision*** (Pearson) - TARRYTOWN

The Selection

- ***Primary Mathematics K-6***
 - (Marshall Cavendish/ Singapore Math)
 - Textbooks
 - Workbooks
 - Challenging Word Problems
 - Extra Practice
 - Manipulatives and other resources
 - Professional development
- ***Math Buddies***
 - (*Marshall Cavendish*)
 - Supplemental digital program for school and home
 - Professional development

The Singapore Framework

Singapore's Mathematics Framework



From the Singapore Ministry of Education

The C-P-A Approach

- *Concrete* (using real objects)
- *Pictorial* (using visual models, such as bars)
- *Abstract* (using mathematical symbols)

- Through this approach, students explore and understand mathematical concepts before learning mathematical procedures and formulas.

Conclusions

We asked the questions:

- “Which program’s rigor and pedagogy will strengthen our students’ foundational, conceptual, and communication skills the most?”
- “Which program will strengthen our teaching of mathematics the most?”
- “Which program shows the greatest commitment to instruction-related professional development?”

All answers supported ***Primary Mathematics.***

Sample of Other Districts/ Schools Using Primary Mathematics

- Scarsdale
- Briarcliff
- Dobbs Ferry
- Bronxville

- Hackley

Questions and Comments

Thank you!