

Balanced Mathematics / Cognitively Guided Instruction (CGI)

Presentation to the Board of Trustees

March 4, 2015

Dr. Brett Geithman, & The MBUSD Math Committee

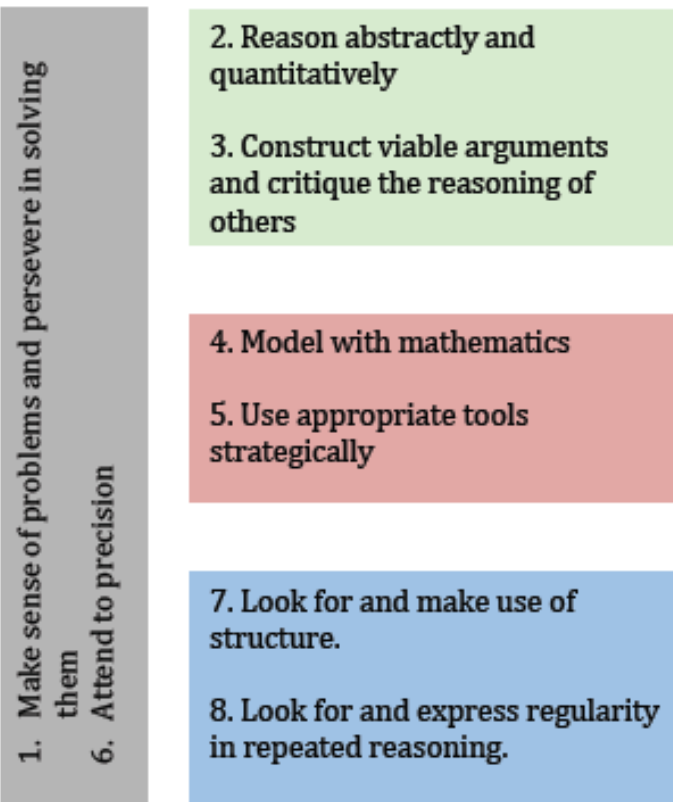
Recommendation Process

- Fall 2013 MBUSD Mathematics Committee was formed
- October, 2013 Elementary Common Core Professional Development through UCLA
- 2014-15 Common Core Professional Development through UCLA
 - 5 days secondary
 - 2 days elementary
 - Up to 120 days of UCLA support for secondary throughout the school year
- Committee researched best practices for mathematics
- UCLA demonstration lessons, December 2014

Recommendation Process

- November, 2014: Math Committee voted and approved (85% threshold) for the Standards of Mathematical Practice to be the MBUSD Mathematics Philosophy
- December, 2014: Math Committee voted and approved (85% threshold) for Balanced Mathematics/Cognitively Guided Instruction (CGI) to be the MBUSD Mathematics Instructional Methodology
- February, 2015: Math Committee unanimous recommendation for the Three-Year Mathematics Timeline

MBUSD Mathematics Philosophy



Reasoning and explaining



Modeling and using tools

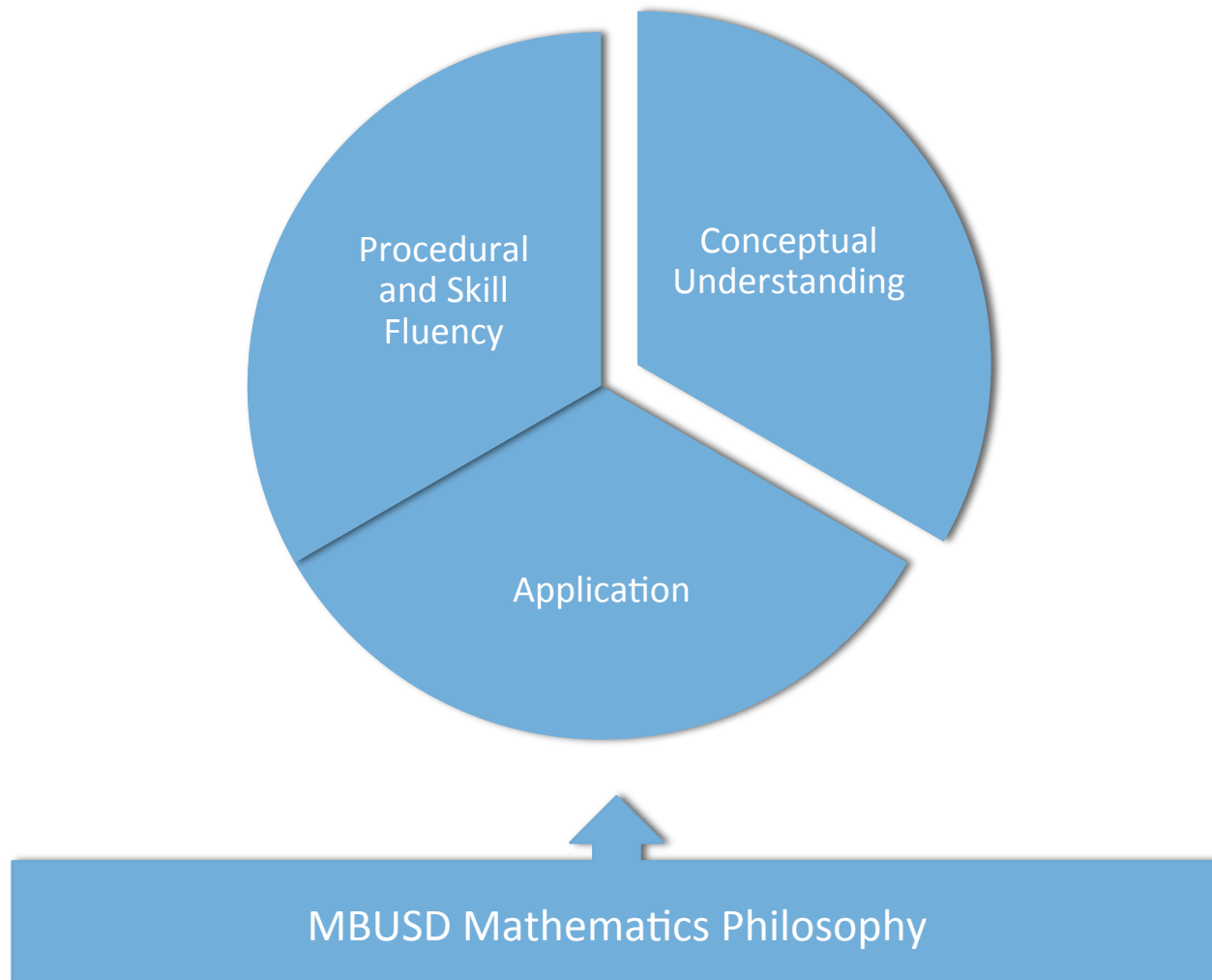


Seeing structure and generalizing



Overarching habits of mind of a productive mathematical thinker.

Instructional Methodology: Balanced Mathematics



How will we transition to Balanced Mathematics/CGI?

2014-15 School Year (proposed plans, pending Board approval)

- March 16th Professional Development Day
 - Elementary: CGI Day 1
 - Secondary: Continue Standards for Mathematical Practice/Balanced Mathematics and instructional planning/collaboration
- Elementary CGI Day 2
 - August 17th or release days in March/April 2015
- Curriculum Mapping
 - Elementary: UCLA, district office, and interested elementary teachers
 - Secondary: \$13,000 for mapping courses using UCLA as a resource

How will we transition to Balanced Mathematics/CGI?

2015-16 School Year (proposed plans, pending Board approval)

- Professional Development Days
 - Elementary: (CGI Day 2: August 17th), CGI Day 3: August 18th or release day in September, CGI Day 4: release day in January, 2016 or summer 2016
 - Secondary: August 19th and 20th
- Secondary Teacher Leader Summer Workshop
- Lesson Study
 - One mandatory, two optional
- Optional After School Workshops
- Coaching
 - Minimum of 2 sessions per teacher
- Curriculum Mapping
- Common Assessments
- Textbook Adoption Process
- Parent Workshops

How will we transition to Balanced Mathematics/CGI?

2016-17 School Year (proposed plans, pending Board approval)

- Professional Development Days
 - Elementary: CGI Day 4 and 5: summer 2016
- Lesson Study
 - One mandatory, two optional
- Optional After School Workshops
- Teacher Leader Coaching Cadre
- New textbook implementation

How will we transition to Balanced Mathematics/CGI?

2017-18 School Year (proposed plans, pending Board approval)

- Lesson Study
 - One mandatory, two optional
- Optional After School Workshops
- Teacher Leader Coaching Cadre

Requests for Approval

- **MBUSD Mathematics Philosophy:** Standards for Mathematical Practice
- **MBUSD Mathematics Instructional Methodology:** Balanced Mathematics/Cognitively Guided Instruction (CGI)
- **Phase I of the Three-Year Timeline**
 - CGI Day 2 release/substitute days (\$11,400)
 - CGI Day 2 summer workshop and CGI Day 3 (\$34,200)
 - Secondary curriculum mapping (\$13,000)
 - *all items are on the consent calendar

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