Math Teachers’ Circle: An Overview of some Research In-Progress

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Motivation for Study

- MTCs are spreading
- MTCs involve mathematicians in PD, communities of teachers, mathematicians, math educators
- MTCs adhere to generally accepted components of effective professional development
- Initial self-report data from teachers was very positive
- High-retention rates

Next: Impacts/Rationale
Impacts and Rationale

- Part of cycle of feedback
- Provide concrete data to potential funders, districts, etc., on MTC effects
- Contributes substantially to community of mathematicians, math educators, teachers, and administrator
- Adds credibility to our work
- Want to help other mathematicians jump in smoothly

Next: Research Questions
Research Questions

■ Does participating in a Math Teachers’ Circle Immersion Workshop
  □ Result in increases in teachers’ Mathematical Knowledge for Teaching? If so, what aspects?
  □ Impact or prepare teachers to assume various leadership roles?
  □ Enhance the math advice networks of participating teachers?

■ How does ongoing participation in a MTC impact the classroom teaching of mathematics?

Next: Study Methods
Study Methods

- Administered Learning Math for Teaching Instrument
  - Subscales used:
    - Number Concepts and Operations
  - Piloting specific questions that we hypothesize will be affected
- Case studies: interviews, video analysis, surveys
- Social network and leadership survey

Next: Open Discussion
Study Challenges

■ Impact hard to identify
  □ Intervention small, hard to isolate
■ Hard to get longitudinal data
■ MTCs differ substantially
Open Discussion

- Questions?
- Thoughts?

Next: Contact Info
Contact Information

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