Critical Thinking and High-level Discourse: Teaching, Learning, and Professional Development in a 1:1 Environment

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Disciplines
Curriculum and Instruction | Science and Mathematics Education

Comments
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Critical Thinking and High-level Discourse

Teaching, Learning, and Professional Development in a 1:1 Environment

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EDUC 332
Teaching Mathematics in Grades PK-8
Supported by:

- The Learning Lab
- Co-teaching
- Innovations Grant
  - 30 iPad 2’s
- Library
  - iPad cart
  - Technical support
Intended Goals

Prepare prospective teachers to:
- Teach in a 1:1 environment
- Locate resources
- Think critically
- Develop a PLN

Model:
- Collaboration
- Deep, conceptual learning
- A constructivist approach
- Co-teaching strategies
Co-Teaching Strategies

- One Teach, One Observe
- One Teach, One Assist
- Station Teaching
- Parallel Teaching
- Supplemental Teaching
- Differentiated Teaching
- Team Teaching
“Textbook”less Curriculum

- Curriculum resources
- Professional organization membership
- Edmodo/Canvas
- Google site
Successes

- Safe environment
  - Encouraging, plussing
  - Challenging each other

- High level discourse
  - Classroom structure (tables, huddle boards, iPads)
  - Inquiry-based environment
Successes

- Critical thinking
  - Constructivist approach
  - Small group discussions
  - “Meta” questions
  - Plussing
Discerning users of technology
- Modeled in class
- Discussed qualities of good apps and bad apps
- A-ha moment with lattice multiplication app

Growth in teaching confidence and ability
- RVCS visit 1 & 2
- Textbookless curriculum
Not successful...yet

- PLN
- Integral use of NCTM
- Time with specific methods decreased
Plussing

- I wonder...