AFTERMATH

A Presentation and Discussion about
Fourth Year Math Classes

MEAD 2012
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Warm-Up

• Work on your own or with a partner on the handout
Background

• Introduction to QA (misnomer)
• G-TEAMS
• Worked with U of A math department to develop class
• Purposes
  – Improve problem solving skills
  – Prepare non-calculus students for college placement
Problem Solving

- Selected “Problem Solving – Crossing the River With Dogs” from Key Curriculum
- Concentrated on this first semester
- Develop problem solving skills and leverage this for second semester
College Algebra Placement Preparation

- ALEKS
  - Used by U of A for placement and college algebra
- Deployed as homework all year
- Quantity (3 hours every two weeks)
- Quality (mid-term and final)
- Cost/accessibility issues
Second Semester
Introduction to QA

• Programming (Python)
  – Project Euler
  – Apply programming skills to S2 topics
• Financial Mathematics (FEFE.arizona.edu)
• Data Analysis
• Trigonometry
Changes for Next Year

• Break the class into stand alone semesters
  – Problem Solving
  – College Algebra

• Break Pre-Calculus into stand alone semesters
  – College Algebra
  – Pre-Calculus/Trigonometry
Arizona Mathematics
Graduation Requirements

• Present (2012) is 3 years
  – Algebra I, Geometry, and an additional course with significant math content as determined by district governing boards or charter schools.

• Next year (2013) is 4 years
  – Algebra I, Geometry, Algebra II (or its equivalent), and an additional course with significant math content as determined by district governing boards or charter schools.
Fifth Year Course Ideas

• Finite Math
• Statistics (Josh Tabor’s book of sports stats)
• Probability
• AP Statistics
• Modeling
• Advanced Mathematical Decision Making
• See IME (http://ime.math.arizona.edu/2007-08/1013_fourthyear.html)
Discussion

• What are you and your school doing?

• What ideas do you have?
Thank you for coming & participating

Please fill out an evaluation form before you leave....