

Catapults, Space Ships, Dune Buggies and Bulldozers: Explorations in Science for Educators.



The first in a series of **CONCOURSE** offerings at ASU's School of Educational Innovation and Teacher Preparation (SEITP).

What is a CONCOURSE? CONCOURSE is a combination CONFerence and COURSE.

How does it work?

The CONFerence: Each weekend, participants attend two general sessions given by SEITP Mathematics and Science education faculty. General session topics include: misconceptions about proportional reasoning and rate of change; coordinating quantities with different units; graphical, numerical and symbolic representations of rates; fractions as rates; patterns and rates; measurement and unit conversion. Real world applications of rate will be investigated in real-life contexts including catapults, bottle rockets, dune buggies and bulldozers.

The COURSE: Each weekend, participants work with colleagues and a faculty member in break-out study groups organized by grade range: Grades K - 3, Grades 4 - 8, and Grades 9 - 12. Each study group focuses on applications of the general session topics to their grade levels and discussion of homework assignments with peers and professors. Participants stay in the same study group for the entire course.

The HOMEWORK: At the close of each weekend, all groups will have assignments in which they have to apply what they learned in the CONCOURSE to their instruction of students in their classes. Assignments will involve observing student performance, developing activities/projects, interviewing students to identify depths of understanding, and evaluating instructional materials.

Location: Arizona State University at the Polytechnic campus in Mesa.

Mathematics & Science Education Faculty: Dawn Teuscher & Colleen Megowan

Meets 3 weekends for 3 graduate credits:

January 30, 31; February 27, 28; March 27, 28

Fridays: 4:30- 9:30 pm and Saturdays: 8:00 am- 5:00 pm

Application Fee: \$65

Tuition: \$1,543

Continuing Education Credits \$400

*Registration and Tuition are due by **January 13, 2009**

** Admission to ASU required before registration.

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This **CONCOURSE** is offered by the SEITP in partnership with the Center for Practice, Research and Innovation in **Mathematics Education (PRIME)**.



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