

Math-Ese 2-D

“Show Me the Math”—Using Technology to Represent Mathematics

A workshop for Oklahoma teachers funded through a grant from the
Oklahoma State Regents for Higher Education
No Child Left Behind Act of 2001

Improving Student Comprehension of Mathematics: Representations Using Technology

May 29-June 2 and June 9, 2007
Follow-up Sessions on September 22 and November 17, 2007
Oklahoma Panhandle State University

During the workshop, participants will be required to:

- Develop higher-level knowledge of math content in constructing and interpreting various mathematical representations,
- Identify troublesome mathematics vocabulary as it applies to the representation of mathematical concepts, and develop strategies to help students assimilate new vocabulary,
- Develop strategies for teaching reading comprehension of math problems as they relate to mathematical representations,
- Create assessment instruments to measure student achievement in the areas of math dealing with mathematical representations,
- Analyze student achievement data and increase their reflective practices to improve instructional strategies,
- Develop presentations aligned to PASS using technology to communicate mathematical representations in their classrooms that they will share with peers.

Following the workshop, participants will be required to:

- Return to campus together two times for five hours each day to share stimulating lesson plans and reflections, current reading in mathematics research and feedback from colleagues, administrators and parents
- Analyze student achievement data to improve instructional practices and reflect about how the workshop has impacted student learning in their classrooms.

Selected participants will receive a stipend of \$ 500.00 for successfully completing all workshop requirements and follow-up activities. In addition, participants will receive an individual computer laptop, the specialized software utilized during the workshop, a flash drive, and additional books to aid in the integration of literacy and mathematics.

Application Form must be received by: April 13, 2007
(Workshop is limited to 25 participants)