

What is the one most burning question you have concerning standards-based mathematics curriculum and/or instruction that you would like to discuss today?

Teacher needs and the process of change:

Change is necessary

Curriculum –

- become familiar enough with the materials to survive and
- learn the mathematics

Instruction

Assessment

Objectives for the Meeting

1. Answer/discuss questions you have concerning standards-based mathematics curriculum and instruction

To discuss and share ideas that you may use to help teachers “teach for understanding”

Quote: To the extent that teachers teach the way that they have been taught, they must experience teaching for understanding if they can be reasonably expected to teach for understanding.

(even students fresh out of our universities)

(from: Looking Inside the Classroom: Mathematics Teaching in the United States, NCSM Journal, Spring 2004, Iris R. Weiss et. al., Horizon Research, Inc., Chapel Hill, North Carolina)

No matter what instructional strategies are used or what beliefs are held concerning effective instruction, there is universal agreement that the result of instruction must be understanding.

- open-ended problem solving,
- hands-on activities,
- manipulatives,
- calculators,
- technology,
- real-world contexts,
- cooperative learning,
- lecture or demonstration
- or direct instruction that focuses on procedures and concepts followed by practice)