Developing Number Concepts Strand: A Course for K-8 Teachers

Aldine ISD

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Purpose of the Course

• The vision

• Gaps in students’ understanding

• Teachers from K-8 invited
Course Development

- 30 slots available
- Limited to number concepts
- Textbook
  - Learning Mathematics in Elementary and Middle Schools published my Merrill/Prentice Hall
- Planning
  - Focusing on the vision
  - Mapping development of number concepts
  - Setting a timeline
Concept and Numeration Development

- Counting Activities
  - Whole Numbers
  - Decimals
  - Fractions
Operations and Meaning of Operations

- Flashcards
  - Drill and Practice
  - Concept Flashcards

- Prime Numbers
  - Divide by 6
Concept of Fractions and Decimals

- Fear of Fractions
- Fractions in a Bag
  - What does the whole look like?
Ratios, Proportions, and Percents

- Proportional Thinking
- Concept development vs. procedures
Two-fifths of the 20 baseball cards Andy has are of New York Yankees. How many Yankee cards does Andy own?
Reaction of Teachers

- Initial reaction
- Ongoing interaction and collaboration
- Final days