

GR8 Minds

Text Sets in High School Mathematics
An Action Research

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Literacy or Literacies?

- Literacy
- Literate Behaviors
 - Shirley Brice Heath
- Multiple Literacies
 - Twenty-first Literacies
- Statistical Literacy
- Critical Literacy

Content-Area Literacies

Developing a Disciplinary Schema

- What we know
- How we know
- Joining the discourse
- How we use what we know

Numeracy and Literacy

Partners

Not

Competitors

Numeracy

Numeracy is a proficiency which is developed mainly in mathematics but also in other subjects.

It is more than an ability to do basic arithmetic.

It involves developing confidence and competence with numbers and measures.

Numeracy

It requires understanding of the number system, a repertoire of mathematical techniques, and an inclination and ability to solve quantitative or spatial problems in a range of contexts.

Numeracy

Numeracy also demands understanding of the ways in which data are gathered by counting and measuring, and presented in graphs, diagrams, charts and tables.

Numeracy + Literacy

"deploying numbers skillfully is as important to communication as deploying verbs."

*Why Math Matters
Max Frankel, New York Times*

Action Research

- Can high school math instruction effectively integrate literacy (reading/writing) skills?
- How will the instruction change?
- How will the learning change?

Building the Text Set for High School Math

- Book selection processes
- Suggested titles
- Developing lessons around literature
- Linking numeracy skills with literacy skills

Sample Lessons

Outcomes

- Content-area tests
- Benchmark data
- FCAT results
- Observational data
- Student self-assessments

Recommendations

- What we learned
- What we would change
- What we will do again

Questions and Responses

References and Resources