

# SMARTER TOGETHER!

*Groups, Equity, and Rigorous Mathematics in K-8 Classrooms*

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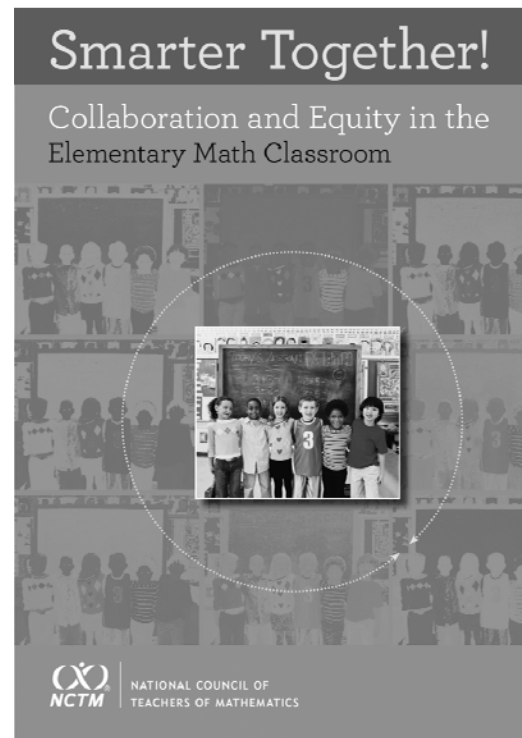
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THURSDAY 1-2:30  
NCTM BOOKSTORE  
EXHIBIT HALL

## STATUS IS....

Belief that some people are smarter and more worthy of being heard or directing activity than others. Thus those who are *assumed* to be smarter have more opportunities to get smarter and appear smarter!

## Facilitator

Gets the team off to quick start  
Makes sure everyone understands the task  
Organizes the team to complete the task  
Keeps track of time

"Who knows how to start?"  
"Does everyone get what to do?"  
"I can't get it yet... can someone help?"  
"We need to keep moving so we can..."  
"Let's find a way to work this out."

## Resource Monitor

Collects supplies for the team  
Calls the teacher over for a team question  
Cares for and returns supplies  
Organizes clean up

"I think we need more information."  
"I'll call the teacher over"  
"We need to clean up. Can you... while I...?"  
"Do we all have the same question?"

## Recorder / Reporter

Gives update statements on team's progress  
Makes sure each member of the team records the data

Organizes and introduces report  
"We need to keep moving so we can..."  
"I'll introduce the report, then..."  
"Did everyone get that in your notes?"

## Questioner

Asks questions about the group's activity and individual contributions:

"Could you explain that?"  
"What is an example of ----?"  
"What's another way we could ---?"

Encourages participation

Enforces use of norms

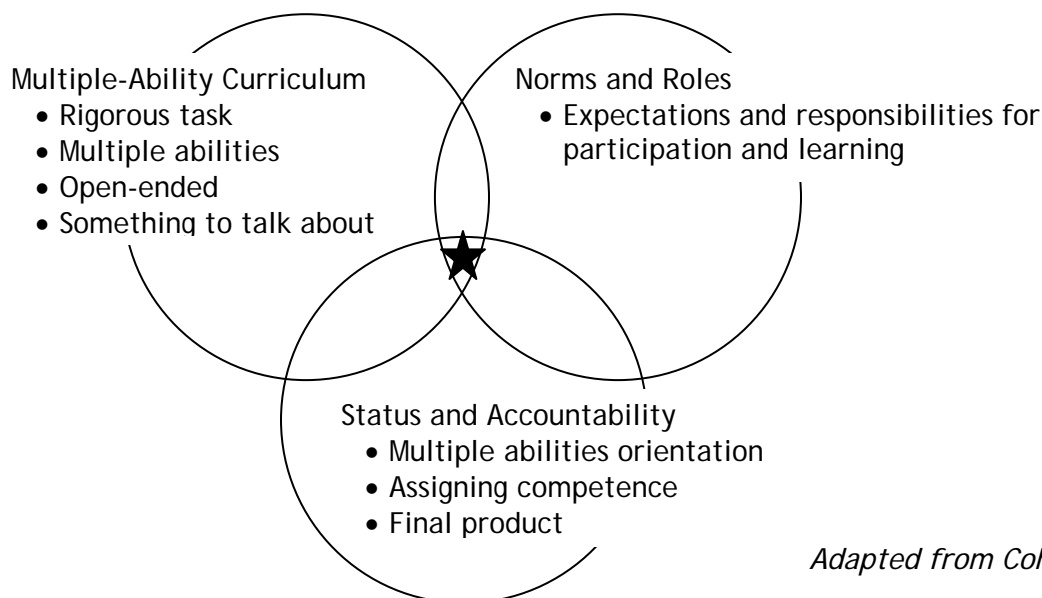
"Remember, no talking outside the team."

"We need to work on listening to each member of the team."

Substitutes for absent roles

*These roles were originally created by the teachers in the Mathematics Department of Railside High School.*

## THREE CIRCLES OF COMPLEX INSTRUCTION



*Adapted from Cohen, 1994.*

### Other Resources

Cohen, Elizabeth. *Designing Groupwork*, 2<sup>nd</sup> ed. New York: Teachers College Press, 1994.

Erickson, Tim. *United we solve: Math problems for groups, grades 5-10*. Oakland, CA: eeps media, 1996.

Goodman, Jan M. *Group Solutions: Cooperative Logic Activities for Grades K-4*. Berkeley, CA: Lawrence Hall of Science, 1992.