



## NCTM Session 8: Unsilence Students' Voices

<http://mathforum.org/nctm/2014/session8.html>

Thursday, April 10, 2014

8:00 AM-9:00 AM

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Picture a classroom. The teacher presents a problem & initiates discussion. Some students look attentive, but are quiet. A few students have hands raised, posed to talk. At least one or two students seem disengaged. Every classroom has silenced voices. Why? Activities & handouts will be shared to help meet the CCSSM Practices, particularly #1 & #3.

### Agenda

Introductions

Three Premises

1. a person learns when they have a voice  
mental | verbal | written
2. every classroom has silenced voices
3. there are different reasons why a voice is not heard

Too Many Voices/Too Little Time

Minimize teacher's talk time - no repetition of students' responses

Maximize time students are talking

Individual student ownership

Lack of Fluency in the Language

mathematics is a language

establishing need

Moving from Passive to Active Learners

encouraging students to take ownership

students take on the task

students build their perseverance

conversations beyond the answer

## Resources

Blog: Suzanne at the Math Forum [[HTML](#)]

Journal Articles [[HTML](#)]

Unsilence Students' Voices [[PDF](#)]

Writing to Develop Understanding: The Math Forum @ Drexel's PoWs [[PDF](#)]

Supporting Sense-Making and Perseverance [[PDF](#)]

Problem Solving-It Has to Begin with Noticing and Wondering [[PDF](#)]

Focus on Student Practice [[PDF](#)]

Powerful Problem Solving

Book [[HTML](#)]

Classroom Videos [[HTML](#)]

Ignite! Talks

Suzanne: [Unsilence Students' Voices](#)

Annie: [Ever Wonder What They'd Notice?](#)

Max: [Why 2 is greater than 4: A proof by induction](#)

## Comments/Questions

Send email to: Suzanne Alejandre -- [suzanne@mathforum.org](mailto:suzanne@mathforum.org)

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