Supporting Students’ Voice (in the F2F and Virtual) Mathematics Classroom

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Your Thoughts?
The Pando Tree

https://en.wikipedia.org/wiki/Pando_(tree)
Our Pando Tree

- The field of mathematics education
- The educational environment where mathematics teaching and learning takes place
- Every teacher and learner of mathematics
- Tonight’s #100NCTM community
In the mathematics learning environment, student voice can be and should be powerful force.

While students own their voice, educators have great influence on how well student voice is developed and amplified.
Agenda

- Student Voice
- Empowering Student Voice
  - Engagement
  - Trust & Respect
  - Lived Experience
Your Perspective on Student Voice

Go to www.menti.com and use the code 😊
Student Voice

- Student voice represents all of the ways students “show up” in the learning environment:
  - What students say and do
  - What cultural capital students present
  - How students interpret experiences
  - How students engage and interact
  - How students (choose to) learn
  - What influence and power students have
"Student voice is developed through students actively engaging with mathematics problems that are set in a context that is relevant to students’ lived experiences. An atmosphere of trust and mutual respect naturally facilitates students developing their voice” (Forgasz & Nebres, 2013).
Empowering Student Voice in Mathematics

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Consider this task:

What time is it when the hour hand is on the 24th minute mark?

(Dixon, Nolan, Adams, Tobias, & Howse, 2016, p. 119)
In addition to having high quality tasks as a foundation for mathematics instruction, what advice can you share for actively engaging students?
Students Actively Engaging

- Honor diverse ways of doing mathematics.
- Foster interactive classroom discourse
- Plan for a variety of learning styles
- Use questioning to boost understanding
- Apply formative assessment
- Select appropriate contexts for tasks
- Model mathematical power
- Convey positive teacher expectations

(Adams, Wenzel, Childs, & Neff, 2019, p. 34-35)
For students to actively engage, there must be trust and mutual respect of student voice.
Mutual Trust & Respect

- Explain and justify solutions.
- Make sense of each others’ solutions.
- Say when you don’t understand or when you don’t agree.

(Dixon, Nolan, Adams, Tobias, & Barmoha, 2016, p. 10)
What are some norms you facilitate in your classroom to support trust and mutual respect?
Teacher as Community Builder
Share Your Best Moves

What are you doing to build community that supports student voice in your classroom?
Students’ Lived Experiences


Thank you!

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