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William R. Speer: Lifetime Achievement Award

- Be patient with the young and compassionate with the aged.
- Even on your worst day, remember that you may be one child's best last hope.
- Mathematics is a vast collection of active verbs and not a final noun.

Construct viable arguments and critique the reasoning of others. Mathematical Practice 3



I can make logical arguments and respond to the mathematical thinking of others.

I can **make and present arguments** by...

- using objects, drawings, diagrams and actions
- using examples and non-examples
- relating to contexts

I can **analyze the reasoning of others** by...

- listening
- asking and answering questions
- comparing strategies and arguments

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Jordan School District 2012, Grades 4-5

Mathematical
Practice
Standard 3

Practice posters
are available by
grade band K-1,
2-3, 4-5, 6 at

<http://elemmath.jordandistrict.org/mathematical-practices-by-standard/>

How did you arrive at the conference?



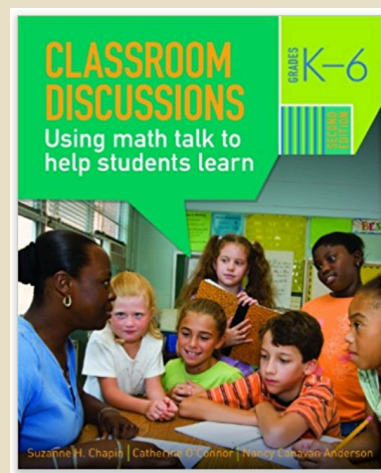
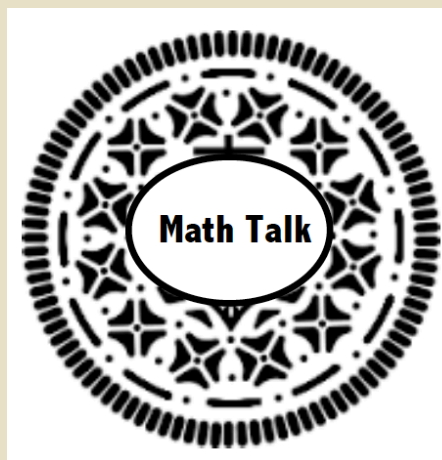
Professor Christopher Emdin


- We have to meet students where they are. We must honor their experiences and respect their intuitive abilities. We have to make mathematics real and relevant. “You can’t teach until you activate the joy and the magic from the context that they originated in. We must connect to the students’ cultural experiences.”

What is your favorite way to eat an Oreo?



5 Talk Moves: Chapin, O'Connor, Anderson






Restate

Restating


“Can you repeat what he just said in your own words?”



Revoice

Revoicing


“So you’re saying that it’s an odd number?”



Prompt

Prompting

“Would someone like to add on?”



Wait Time

Wait Time

“Take your time.... we’ll wait.....”




Reason


Apply Reasoning

“Do you agree or disagree and why?”


Different Talk Structures



Partners

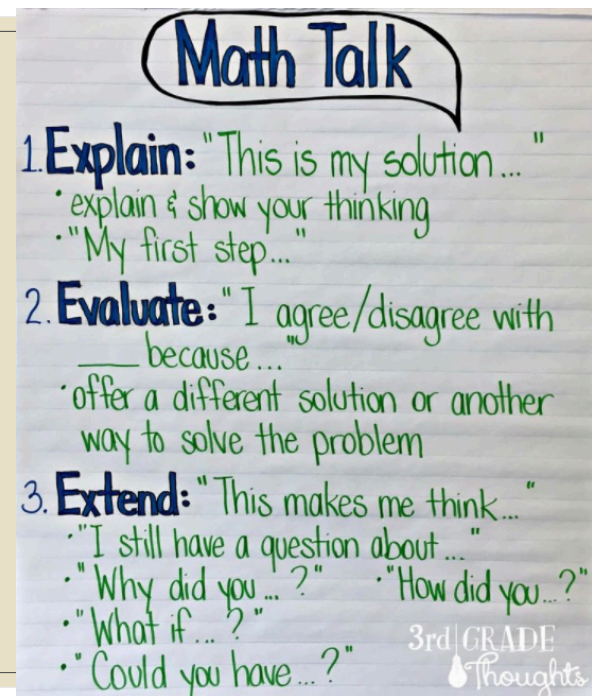
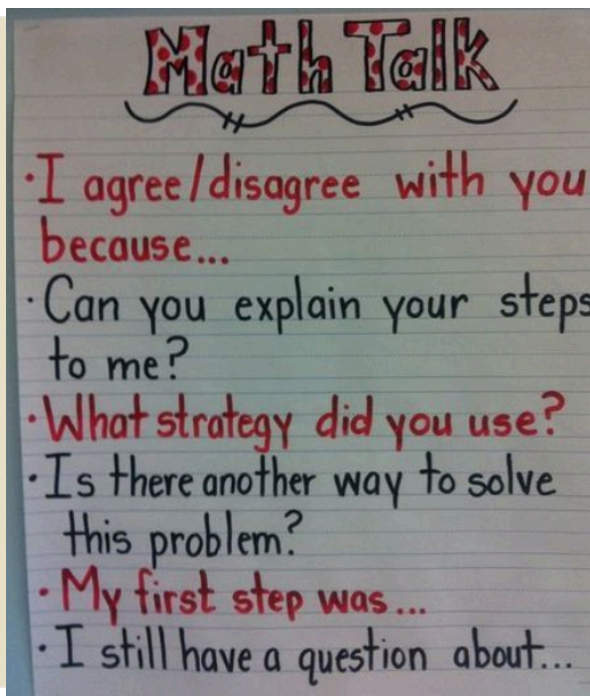
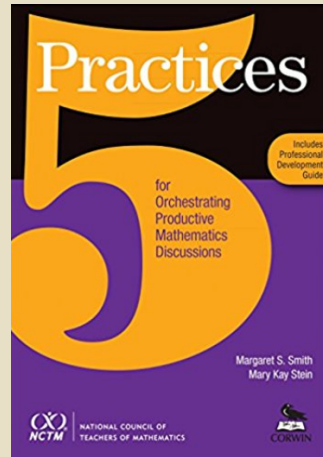


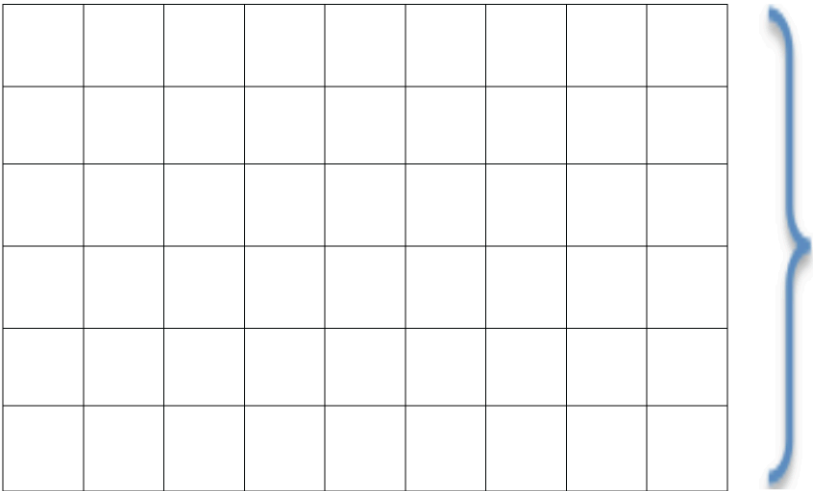
Small Group



Whole Group

5 Practices for Orchestrating Productive Mathematics Discussions: Smith and Stein & Intentional Talk: Kazemi and Hintz





6

9

The area of this rectangle can be expressed as $6u \times 9u = 54u^2$

Partition the model into 2 parts and use the model to create an additional equation to represent the same area. Share your model and equation with your partner.