

Principals' Tea

February 18, 2015

Explore Resources

[SFUSDmath.org](https://www.sfusdmath.org)

- Educator resources
- Family & community resources
- Student resources

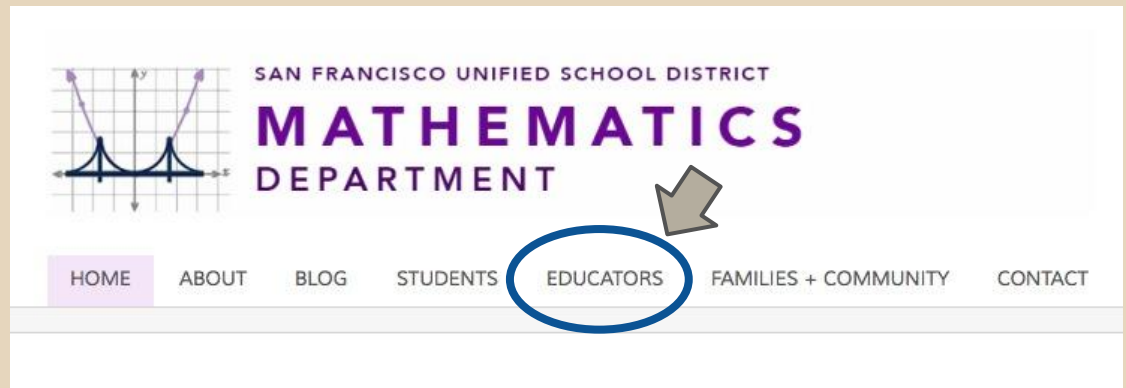
[School Loop](#)

- All complete units, K-12
- Discussion Board with updates, revisions & additions
- Translations

Teacher Leader Resources

On SFUSDmath.org:

1. Under ‘Educators’
2. Click on ‘Math Teacher Leaders’



Responses to Feedback

- Extended CLA windows
- Hired reviewers to examine flow over a year
- Lesson plan format
- Translations
- Parent letter for the start of each unit to increase parent info because there is no text.

SFUSD Unit Design



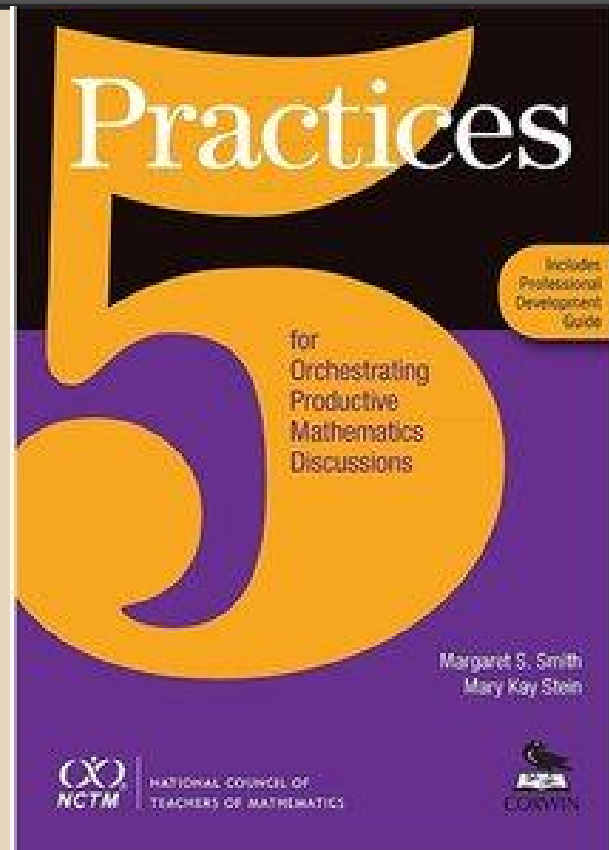
5 Practices for Orchestrating Productive Mathematics Discussions

Margaret Schwan Smith

Mary Kay Stein

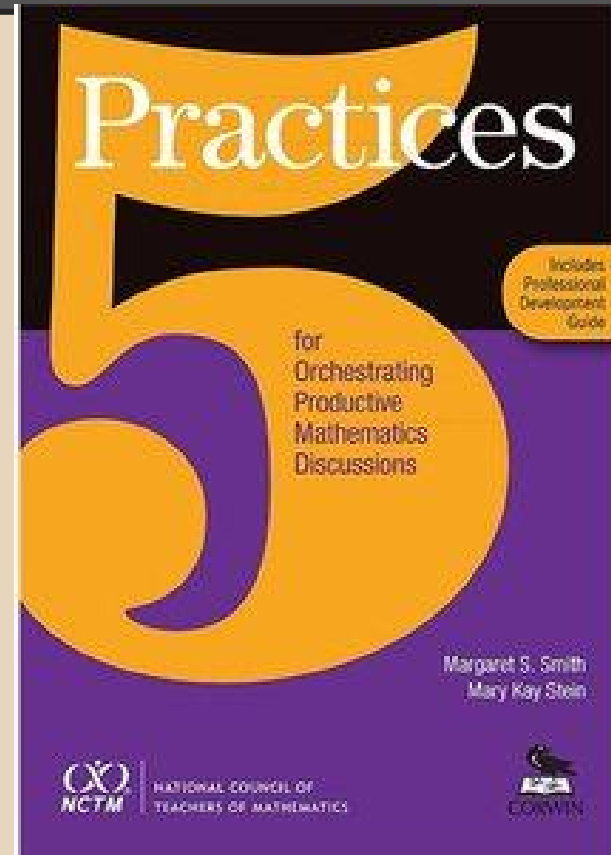
Math Teaching Tool Kit

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5 Practices for Orchestrating Productive Mathematics Discussion

- ❖ Anticipating
- ❖ Monitoring
- ❖ Selecting
- ❖ Sequencing
- ❖ Connecting



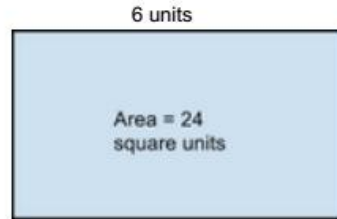
5 Practices for Orchestrating Productive Mathematics Discussion

★ Anticipate

Do the task

4.4 Apprentice Task Finding Dimensions of a Rectangle

The rectangle below has an area of 24 units. One of the sides measures 6 units. What is the measurement of the remaining side?



What are the dimensions of all the rectangles can you draw with an area of 24 units? Label or list the dimensions.

What math would you want students to show with this task?
What misconceptions might students have?

5 Practices for Orchestrating Productive Mathematics Discussion

★ Monitor



5 Practices for Orchestrating Productive Mathematics Discussion

- ★ Select
- ★ Sequence
- ★ Connect

Explain Why The Strategy Works

2.8 Exit Task

4. Compare Fish L to each pair of fish.

a. Fish L is 72 inches.

b. What is the difference between Fish L and Pair 1?

$72 - 50 = 22$

Fish L is 22 in longer than pair 1

c. What is the difference between Fish L and Pair 2?

$72 - 40 = 32$

Fish L is 32 in longer than pair 2

2.8 Exit Task

4. Compare Fish L to each pair of fish.

a. Fish L is 72 inches.

b. What is the difference between Fish L and Pair 1?

$72 - 48 = 24$

The Difference is 24 inches

c. What is the difference between Fish L and Pair 2?

$72 - 38 = 34$

The Difference is 34 inches

2.8 Exit Task

Use the "Comparing Fish" poster to choose two pairs of fish. Do not choose Fish L.

Pair 1	Pair 2
Fish <u>1</u> is <u>13</u> inches	Fish <u>2</u> is <u>38</u> inches
and	and
Fish <u>K</u> is <u>12</u> inches	Fish <u>H</u> is <u>30</u> inches

3. Which pair of fish is longer? Show how much longer. Use words, numbers and pictures to show your thinking.

$38 - 13 = 25$

$30 - 12 = 18$

$25 > 18$

Pair 1 is longer by 7 inches

$72 + 72 = 0$ 24

Why is counting by 10 important?
How does labeling help?

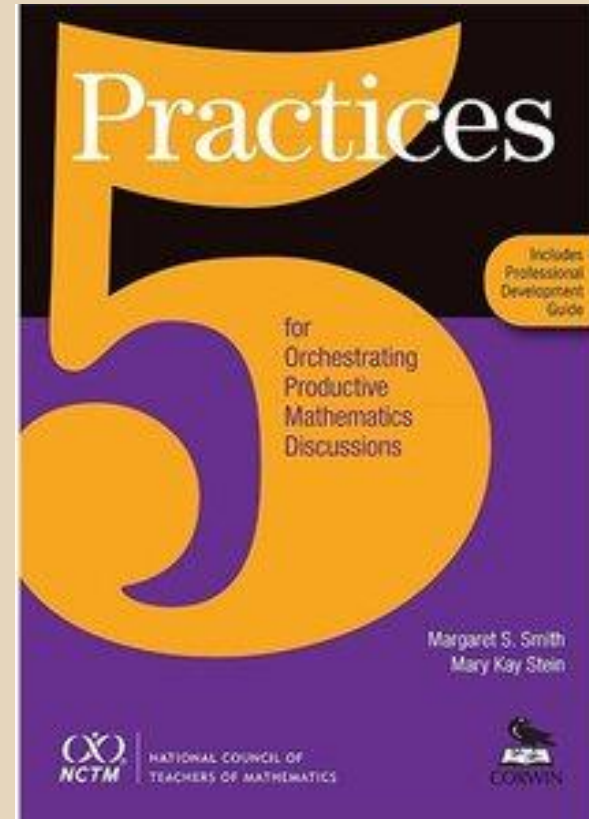
How can this strategy be improved?

Adding And Subtracting Within 100

5 Practices for Orchestrating Productive Mathematics Discussion

What are some benefits with this type of lesson design?

What supports might teachers need to do this effectively?



Teacher Leaders

1 hour per month for teachers to work specifically on math - could be PD or grade level collaboration

18 additional hours for each Teacher leader



Teacher Collaboration

- How can you support teacher collaboration in math at your site?
- What structures could you facilitate to improve implementation at your site?



*Grade Level
Planning*



*Cross Grade
Articulation*



Lab Classroom

Cafe Conversations



*Grade Level
Planning*



Lab Classroom



*Cross Grade
Articulation*



Other

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Grazie

Achiu

Danke schön

Dziękuję

Thank You

Tak

Dank je

Tänan

Merci

Cám ơn

<http://tinyurl.com/ElemPrincPD2-18>

[http://goo.](http://goo.gl/forms/gnpGZDQZPM)

[gl/forms/gnpGZDQZPM](http://goo.gl/forms/gnpGZDQZPM)