San Ramon Valley USD

ROBERT KAPLINSKY

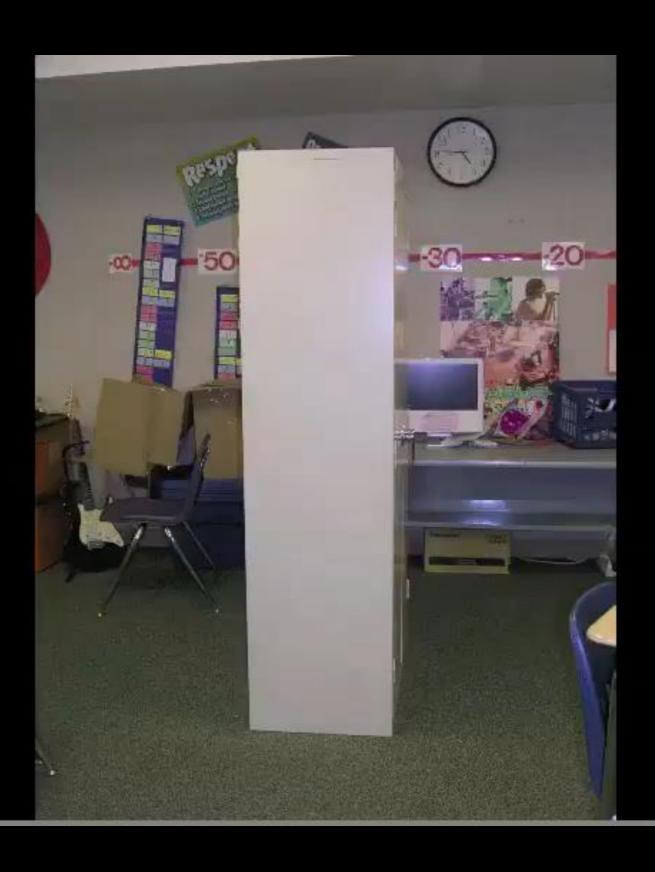


@robertkaplinsky

Goals

- Engaging problem solving
 - Real world problem-based learning
 - Higher depth of knowledge problems
- ☐ Better implementation
 - Practice preparing to implement a lesson











Height: 72 inches







Height: 72 inches

Width: 36 inches







Height: 72 inches

Width: 36 inches

Depth: 18 inches



Recycled Self Stick Notes Notas autoadhesivas reciclados Notes autocollantes recyclés

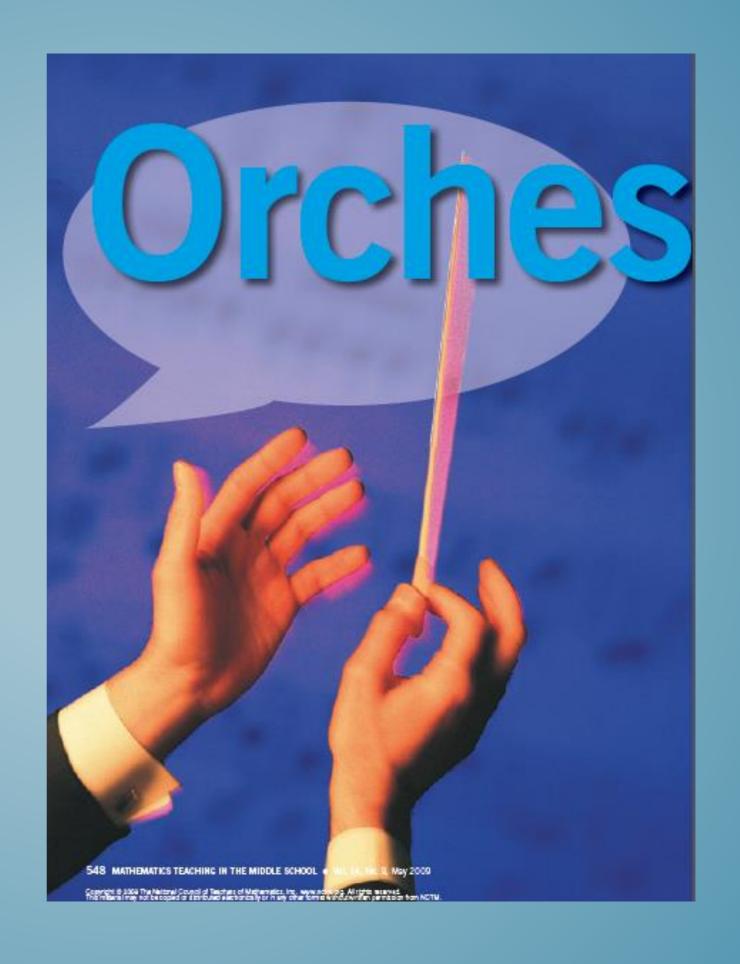
- 18 pads / blocs
- 100 sheets per pad/hojas por bloc/f
 Total 1800 sheets/hojas/feuillets
- 3 in x 3 in (76,2 mm x 76,2 mm)

Sticky note

Dimensions: 3" x 3"



FIVE PRACTICES



Discussion Questions

- "Giving students too much or too little support, or too much direction, can result in a decline in the cognitive demands of the task." (p. 550) Why?
- "By making purposeful choices about the order in which students' work is shared, teachers can maximize the chances that their mathematical goals for the discussion will be achieved." (p. 554) What ways do teachers currently select students? How would you suggest they change their selection process after reading this?
- What challenges might teachers have when trying to "connect" student solutions? (p. 554)

Implementing the Five Practices

- 1. Pick a selection strategy you anticipate using before looking at the student work.
- 2. Next, review the student work to simulate the reality that you won't know what students will actually do.
- 3. Figure out which students you would have share their mathematical work.
- 4. Determine the order you would have those students present their work.
- 5. Decide on which connections you would emphasize between the students' work and mathematical ideas.

Posters

- At the top of the poster, list the selection strategy used by your group. For example:
 - Starting with the most commonly used strategy and moving to one that few students used.
 - Starting with a strategy that is more concrete and moving to strategies that are more abstract.
 - Incorporating wrong answers to address common misconceptions.
- Attach those students' work to the poster in the order that you would present it.
- Next to the student work list the questions you would ask the student(s) or ideas that you would want to come out as a result of showing that student's work.











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Status Quo

Change is transition

New Reality

Change then transition









- Change
- Transition
 - Ending

- Change
- Transition
 - Ending
 - Neutral Zone

- Change
- Transition
 - Ending
 - Neutral Zone
 - New Beginning

What does this mean for math education?

- Change
- Transition
 - Ending

- People may not stop doing anything. They may try to do all the old things <u>and</u> the new things. Soon they burn out with the overload.
- People make their own decisions about what to discard and what to keep, and the result is inconsistency and chaos.
- People toss out everything that was done in the past.

- Change
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Status Quo

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Change then transition

Construction

• Pick two:



Fast High Quality

Family

• Pick two:



Kids or Pets

Clean House

Problem-Based Learning

• Pick two:



Student-Centered Learning

Predictability

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