

# Make Math Memorable With Mathcasts



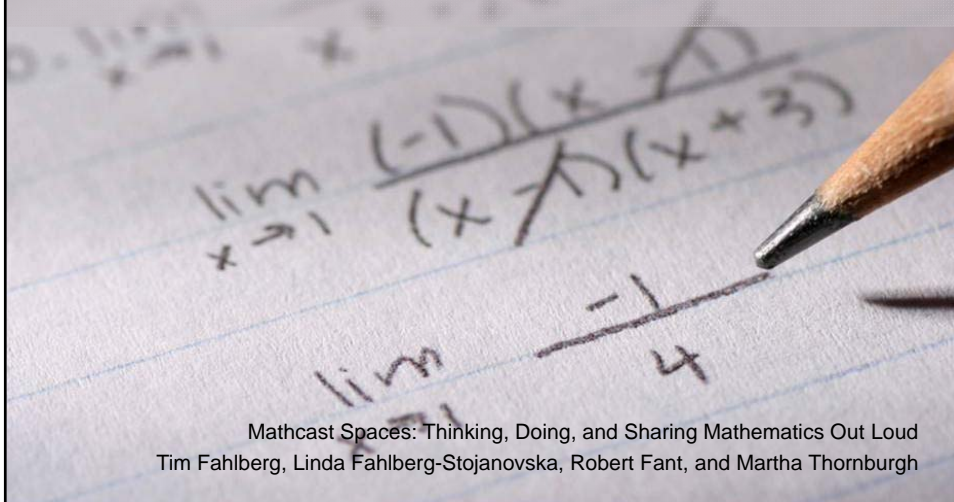
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Links, articles, handouts, videos

<http://tinyurl.com/mathcast>

“A mathcast is a screen recording of writing plus voice and/or text explaining a mathematical concept or solving a problem. Both educators and students can make mathcasts!”



Mathcast Spaces: Thinking, Doing, and Sharing Mathematics Out Loud  
Tim Fahlberg, Linda Fahlberg-Stojanovska, Robert Fant, and Martha Thornburgh

“The teacher may ask a student to share his or her solution methods with others because the teacher realizes that such opportunities can help the student clarify his or her thoughts.”



“Using technology to foster teachers’ reflections about children’s arithmetical thinking”  
Teach. Child. Math. 4, No. 8, 484-87 (1998).

“When children explain and discuss their own algorithms with other children, they internalize what the operations mean and learn from each other.”

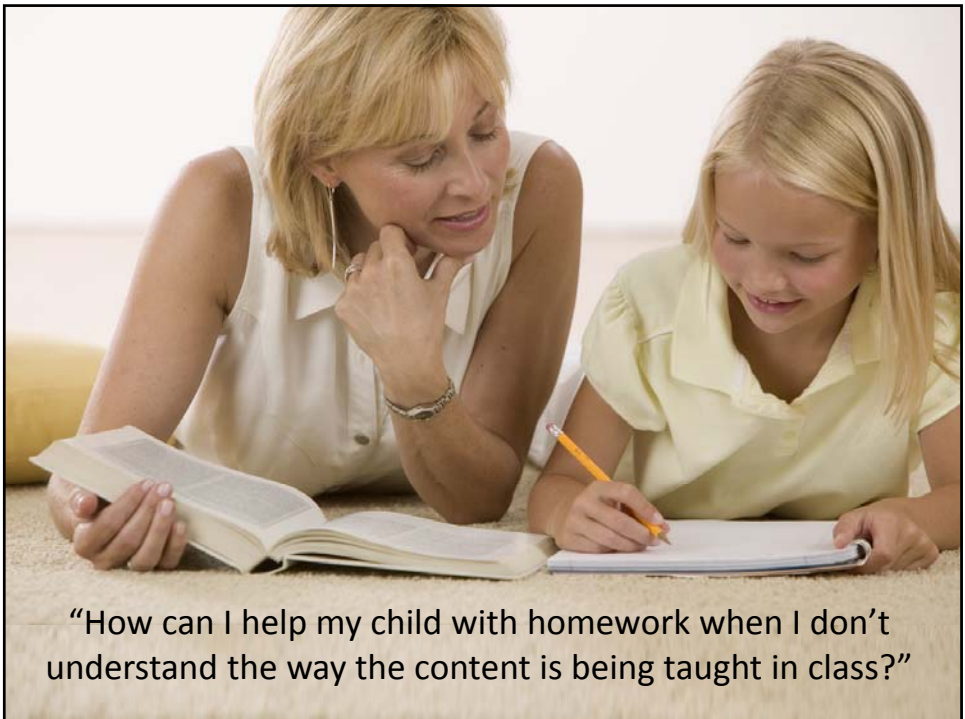


The University of Chicago Mathematics Project.  
Everyday Mathematics Frequently Asked Questions.  
<http://everydaymath.uchicago.edu/parents/faq>

“Children's discussions also provide valuable information that can help teachers assess the development of their numerical thinking.”



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[Mathtrain.TV](http://Mathtrain.TV) is a free educational "kids teaching kids" project from Mr. Marcos & his students at Lincoln Middle School in Santa Monica, CA. Mathtrain.TV was created by middle school mathematics teacher, Eric Marcos.

Ladder Method  
for LCM & GCF  
by "Jerry"

▼ **Jing transforms 7th grade classroom**

"Jing was the most amazing addition to my classroom last year. Teaching 7th grade math has always been very fun for me - kids at this age are usually terrified of math and getting up in front of the classroom.

I'd been looking for an easier way to upload my teaching videos when someone mentioned the Jing Project. I downloaded it that night and came to school the next day SO EXCITED!!

I showed Jing to my students and they instantly wanted to use it. Suddenly EVERY student wanted to work math problems on the board. Students come to the board and record themselves working on problems in front of the class.

Students started recording themselves working on math problems at home and would email them to me, or to each other, even uploading the videos to their own student-created web pages.

We even turned "The Jing Project" into a verb and I found myself saying, "Who wants to Jing one of the homework problems?" Hands went up like crazy! Jing has been an excellent resource, and has TRANSFORMED the way I teach forever."



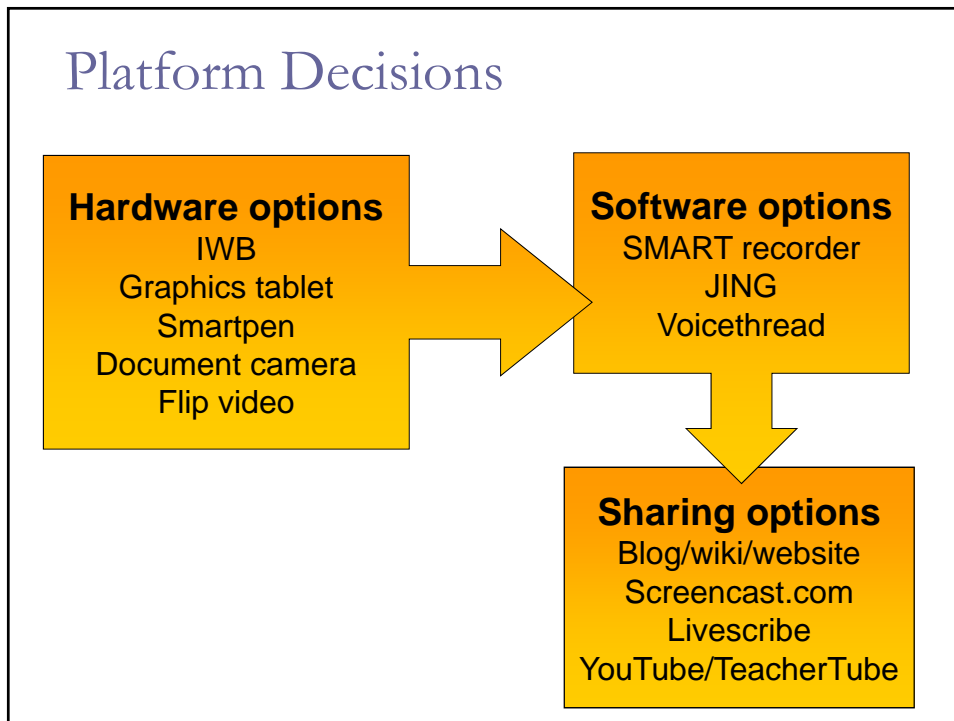
<http://jingproject.com/users/>

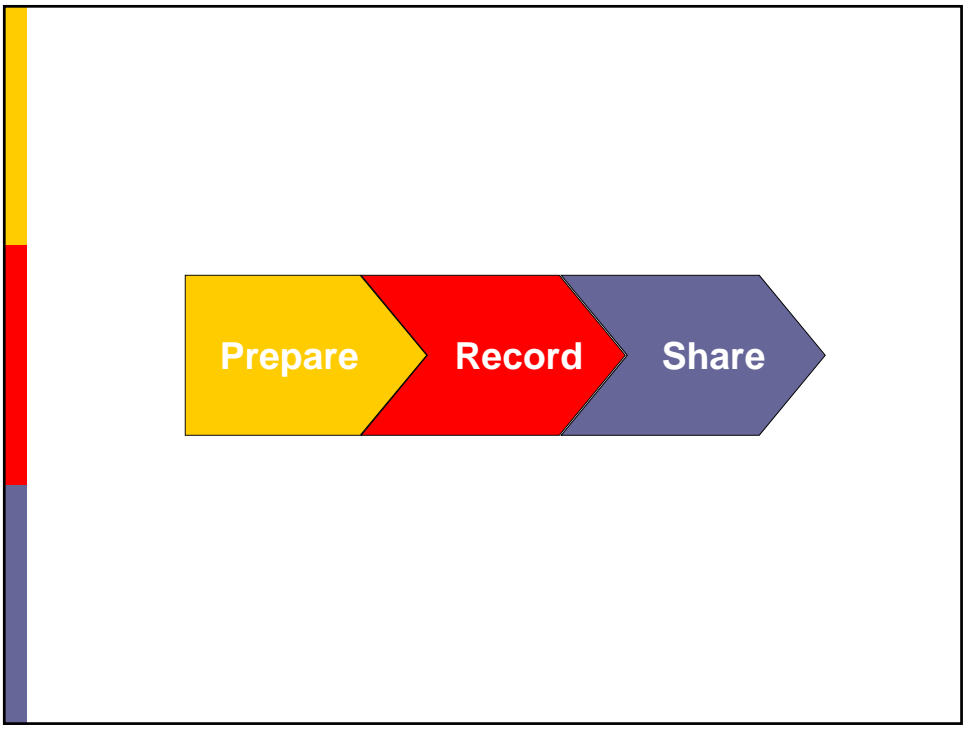
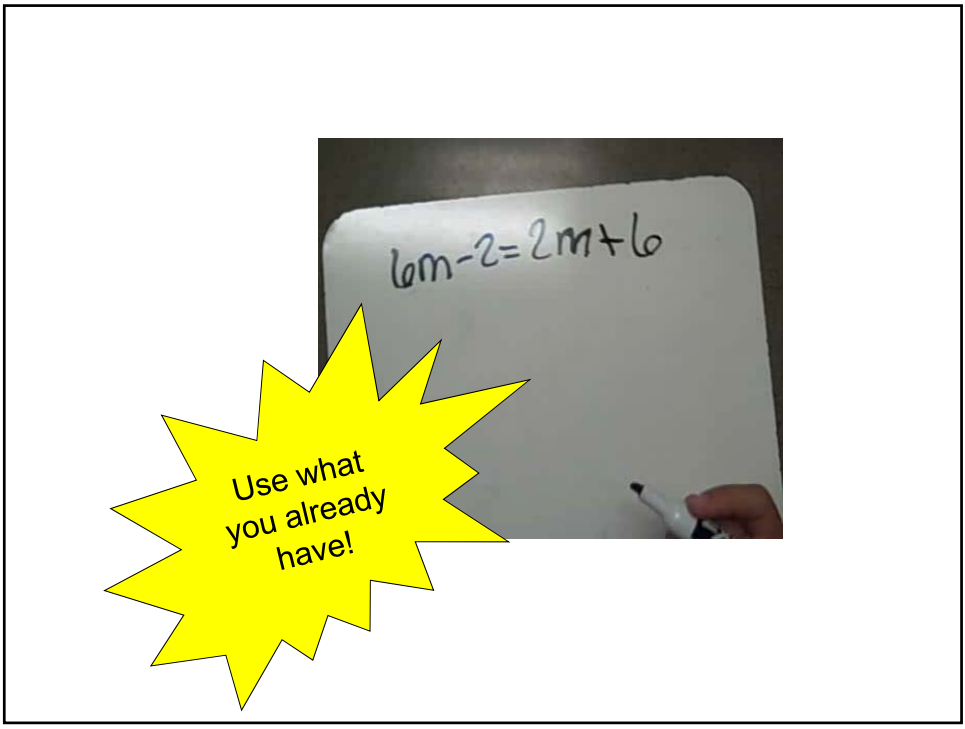
## Research Says:

- Keep content focused
- Images & text are adjacent
- Oral narration concurrent with visual
- Conversational tone (personalization)
- Give student some control (interaction)
- Use visual clues to reflect change (color)

Danton H. O'Day, Department of Biology, University of Mississauga, Ontario, Canada.  
How to Make Pedagogically Meaningful Animations. Available online:  
<http://www.techsmith.com/community/education/interview/odayanimationipsi2006.pdf>

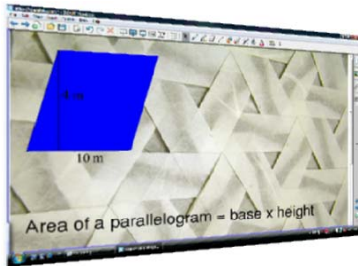




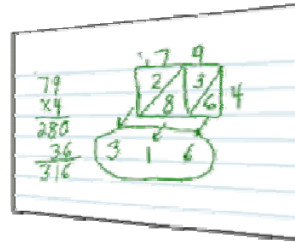




## Formal or Informal?

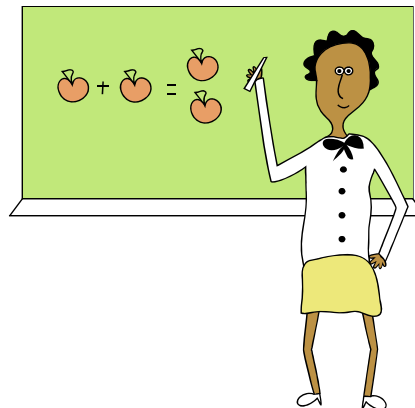


<http://www.mrjwilliams.com>



## Prepare

- Create the math problem
  - SMART notebook
  - PowerPoint
  - Written out
  - Scanned image
  - Mathcasts 500 Project
  - ExamView
  - GeoGebra
  - Math websites
  - Textbook resources
- REHEARSE!



## Record

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- Perform mic check
- Use your preferred "platform"
- Listen, watch, reflect, repeat



## Share

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- Upload to file host site
- Embed on a blog, wiki, web page
- Publicize!!!



