

# LOVING MATH AND NEEDING THE ARTS

Presented by: Cathy Seeley

## Resources:

Faster Isn't Smarter: <https://drive.google.com/open?id=1X7WyzHGxM0hFq0k92zBRZrmuOdbAVNaV>

STEAM and Math: <https://drive.google.com/open?id=1-tmn98hpWTU-eJCMgvN3-S0mmaG4Di8O>

Smarter than We Think: <https://drive.google.com/open?id=1nZTPJukGRt7zplPdnZ-9Cn8l2lGfz9WI>

## Classroom videos for discussion 2017:

<https://www.teachingchannel.org/blog/2016/05/13/modeling-with-math-nsf/> (second video on the page) A "Three-Act Lesson" for 2nd grade on subtraction (9:35; "What do you notice? What do you wonder?"); also kindergarten in first video (10:00)

<https://www.youtube.com/watch?v=Xl3-52B0V6s>

A "Math Effective Task" from Fairfax County Schools (VA): "This is your job . . ." (6th grade) working on a problem to find possible dimensions of a figure with a given perimeter (4:50)

<https://www.learner.org/resources/series32.html> (scroll down to #6)

From Annenberg Learner, a 4th-5th grade classroom working on a problem about the number of various types of animals in Yellowstone Park, as a follow-up to their trip to Yellowstone (21:16)

<https://www.teachingchannel.org/videos/fraction-multiplication-intro-sbac>

Fifth-grade lesson to get ready to multiply fractions, using an applied context (if not a likely situation) after a short number talk (9:13)

<https://www.teachingchannel.org/videos/ratios-and-proportions-lesson-sbac>

Sixth-grade lesson introducing ratios using a lesson on mixing purple paint (8:26).

<https://www.teachingchannel.org/videos/students-learn-from-mistakes-ccssmdc>

Middle school algebra students analyzing each other's mistakes on linear equations (2:50).

<http://mass.pbslearningmedia.org/resource/mtc13.pd.math.deb/encouraging-debate/>

A PBS Learning Media high school video produced by WGBH/WGBY in Massachusetts, on a pre-calculus lesson led by a math teacher/debate coach (4:54).

<https://www.youtube.com/watch?v=kNNMG7Wh9eU&feature=youtu.be>

A lesson on tire sizes from a 12th-grade course, Advanced Quantitative Reasoning (21:31).

(Also, check out the video of Marisa solving the bus problem from the Math Reasoning Inventory: **mathreasoninginventory.com**; select 'Learn More' and scroll to the middle for an example of what happens when we cover content quickly by teaching tricks and shortcuts without building understanding.)

Publicly posted videos selected by Cathy Seeley, not necessarily as exemplars, but as a foundation for discussion (2017)