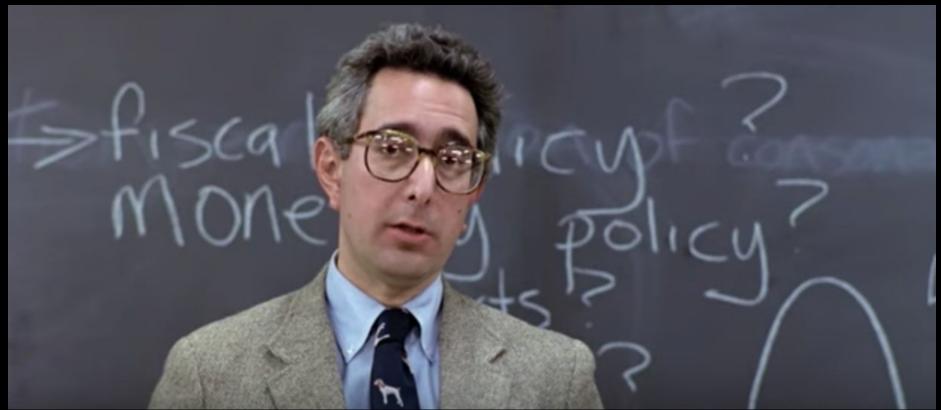
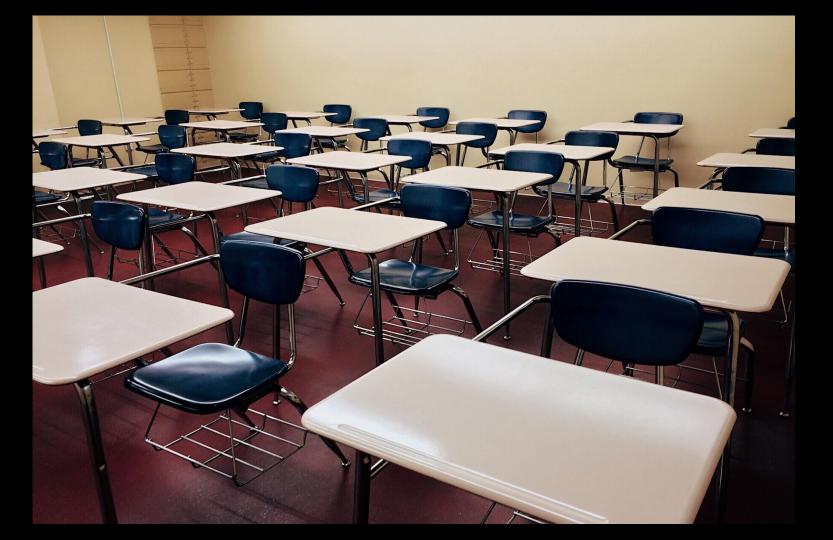




Have you ever HAD that class or BEEN that teacher? Who cares?







How can we evolve a traditional math classroom into one that is modern and ...



leg·end·ar·y /ˈlejənˌderē/ •

adjective

adjective: legendary

 of, described in, or based on legends.
 "a legendary British king of the 4th century" synonyms: fabled, storied, heroic, traditional, fairy-tale, storybook, mythical, mythological
 "legendary knights"

antonyms: factual, historical



leg·end·ar·y

/ lejən derē/ •)

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"a legendary British king of the 4th century"

synonyms: fabled, storied, heroic, traditional, fairy-tale, storybook, mythical, mythological

"legendary knights" antonyms: factual, historical

remarkable enough to be famous; very well known. "her wisdom in matters of childbirth was legendary"

synonyms: famous, celebrated, famed, renowned, acclaimed, illustrious, esteemed, honored, exalted, venerable, well known, storied, popular, prominent, distinguished, great,

eminent, preeminent, high-profile; formal lauded

"a legendary figure in sports"



Leg • end • ar • y adjective

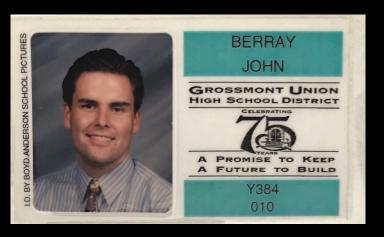
Remarkable enough to be famous; very well known







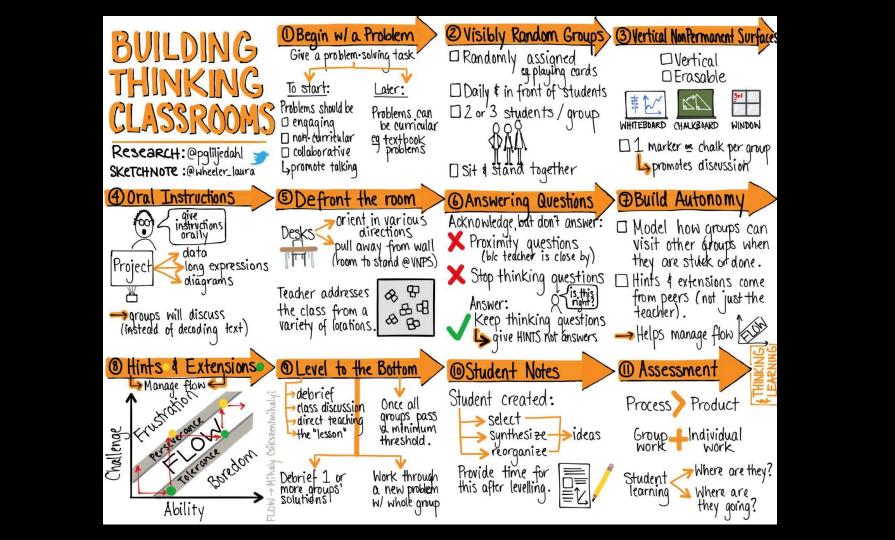
"Do the best you can until you know better. Then when you know better, do better." -Maya Angelou #knowbetterdobetter





Knowledge of Math Content Standards Kind Person

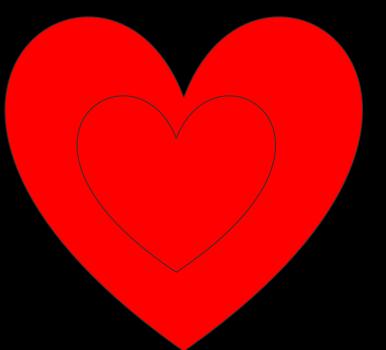
Reflective Teacher Knowledge of Math Practice Standards

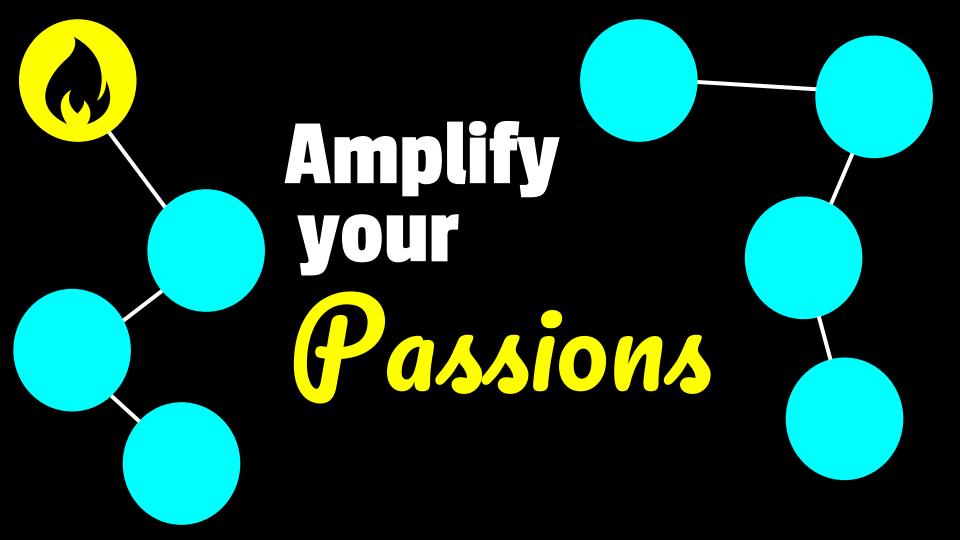


Pick a topic you LOVE to teach.



Fractions Trig identities Slope Derivatives Volumes of solids

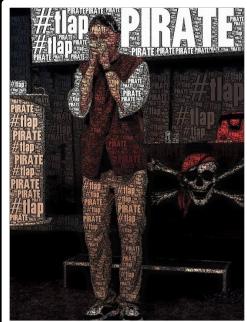




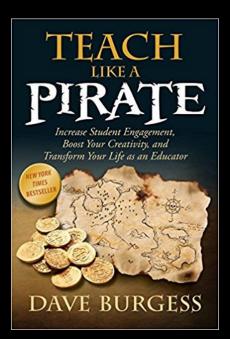
Pick a topic you LOVE outside of teaching.





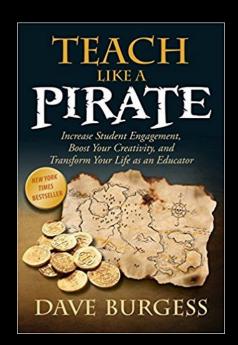


Dave Burgess



#tlap
#NCTMannual
@johnberray
Dos libros





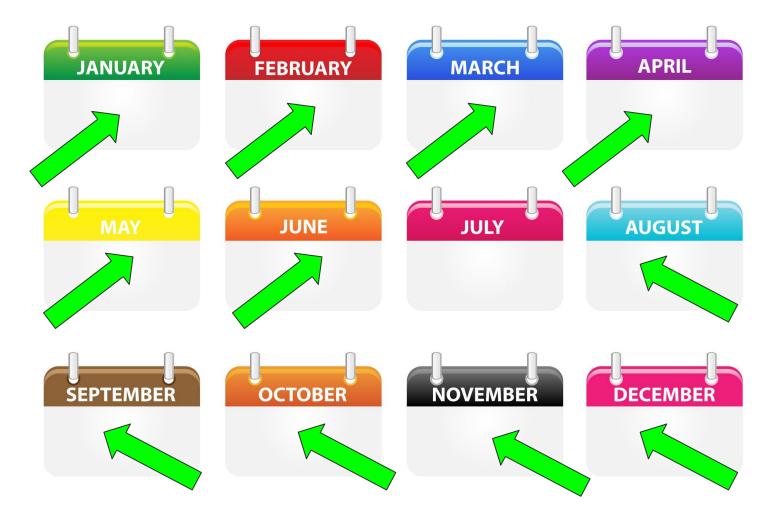
Personal Passion Professional Passion Content Passion

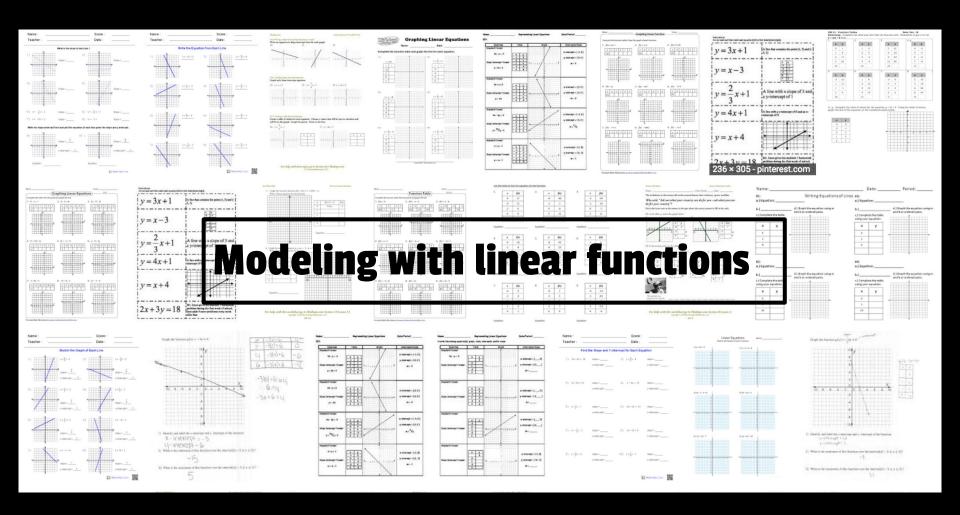


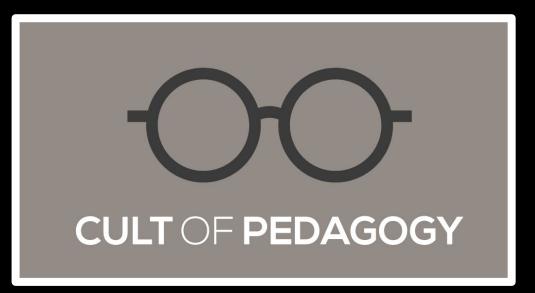
"Touchstone Experiences" -Peg Cagle













FRICKIN' PACKETS

by Jennifer Gonzalez

Are your worksheets contributing to meaningful learning, or just keeping students busy?





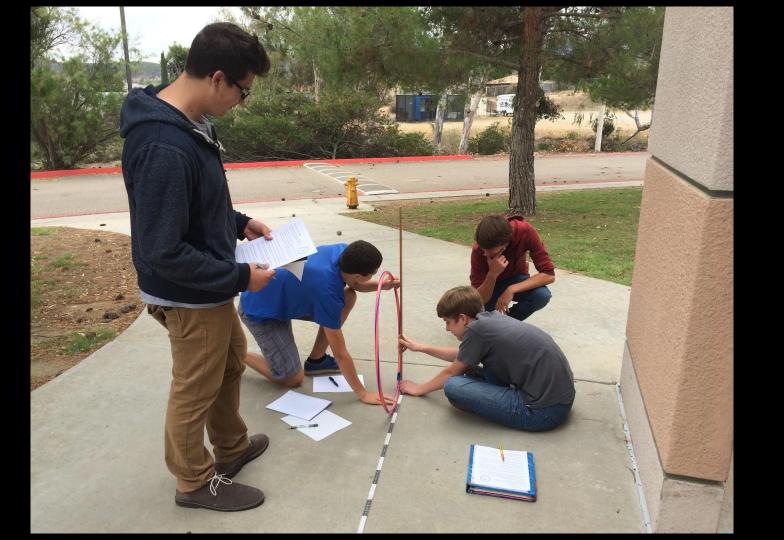


Food meets algebra!

Robert Kaplinsky

Name	Date	Class
Practice B		
10-6 Volume of Prisms and Cylinders		
Find the volume of each prism. Round to the nearest tenth if necessary.		
1. 3 mi 2 mi	2. 15 mm	
the oblique rectangular prism	the regular oct	agonal prism
3. a cube with edge length 0.75 m		
Find the volume of each cylinder. Give your a rounded to the nearest tenth. 4. 8 yd 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	5. 6 km	rms of π and
6. a cylinder with base circumference 18π ft and height 10 ft		
 CDs have the dimensions shown in the figure is 1 mm thick. Find the volume in cubic cent stack of 25 CDs. Round to the nearest tenth 	timeters of a	0.75 cm
Describe the effect of each change on the volume of the given figure.		
8. 6 in.	9. 15 m	0 m
The dimensions are halved.	The dimension	s are divided by 5.







Top 10 skills

in 2020

- 1. Complex Problem Solving
- 2. Critical Thinking
- Creativity
- 4. People Management
- 5. Coordinating with Others
- 6. Emotional Intelligence
- 7. Judgment and Decision Making
- Service Orientation
- 9. Negotiation
- 10. Cognitive Flexibility

in 2015

- 1. Complex Problem Solving
- Coordinating with Others
- 3. People Management
- 4. Critical Thinking
- Negotiation
- 6. Quality Control
- 7. Service Orientation
- 8. Judgment and Decision Making
- 9. Active Listening
- Creativity





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Critical Thinking

Communication

Collaboration

Creativity

Critical Thinking

Communication

Collaboration

Creativity

Critical Thinking

Communication

Collaboration

Creativity



Michael Fenton

Indifference

Consumption

Competition

Isolation

Conversation

Collaboration

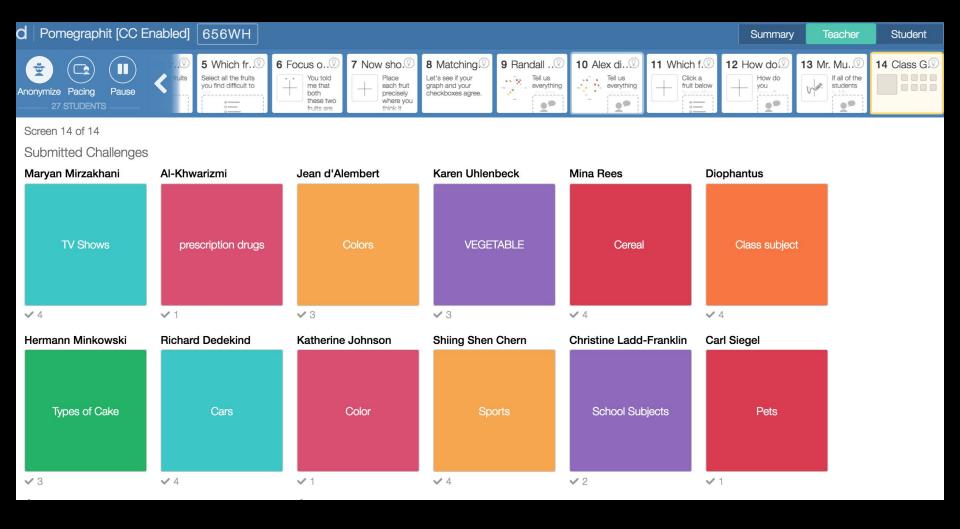
Curiosity

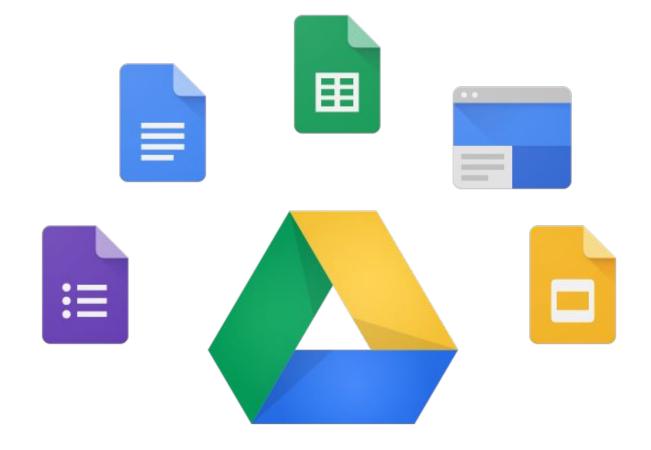
Creativity

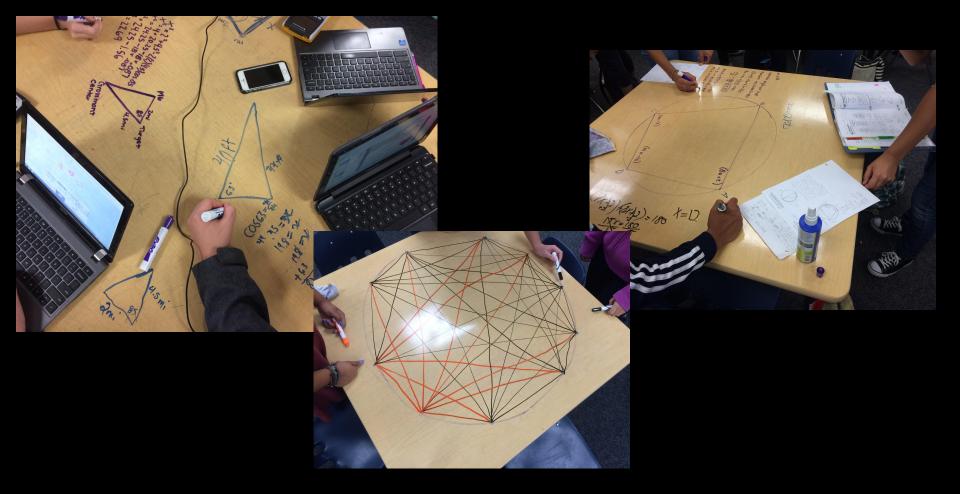


Collaboration can be...

- informal conversation
- structured talking protocols
- peer feedback
- iterative process of collaborative creation

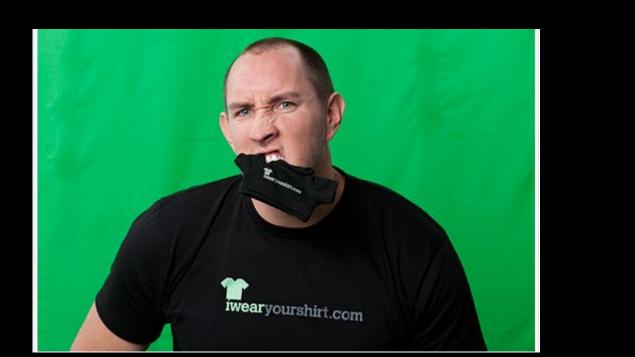






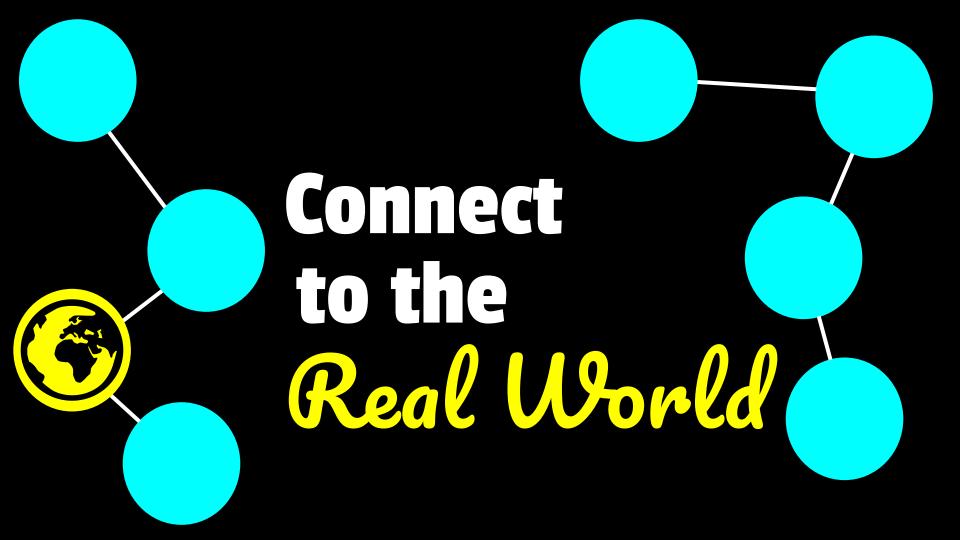


Abbay Alleh Savanna Isabella Le Gani 410 Marlt Ragbee Itzel Kate SORRE Sophie









$$x^{2} + \frac{b}{a}x + \frac{c}{a} = 0$$

$$x^{2} + \frac{b}{a}x = -\frac{c}{a}$$
Subtract $\frac{c}{a}$ from both sides
$$x^{2} + \frac{b}{a}x + \left(\frac{b}{2a}\right)^{2} = -\frac{c}{a} + \left(\frac{b}{2a}\right)^{2}$$
Complete the square
$$(x + \frac{b}{2a})^{2} = -\frac{c}{a} + \left(\frac{b}{2a}\right)^{2}$$
Factor on left
$$(x + \frac{b}{2a})^{2} = -\frac{c}{a} \cdot \frac{4a}{4a} + \left(\frac{b^{2}}{4a^{2}}\right)$$
Find LCD on right
$$(x + \frac{b}{2a})^{2} = \left(\frac{b^{2} - 4ac}{4a^{2}}\right)$$
Simplify
$$\sqrt{(x + \frac{b}{2a})^{2}} = \sqrt{\left(\frac{b^{2} - 4ac}{4a^{2}}\right)}$$
Take square root of both sides

General Form of a quadratic equation

 $ax^2 + bx + c = 0$

 $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

 $x + \frac{b}{2a} = \frac{\pm \sqrt{b^2 - 4ac}}{2a}$ Simplify $x + \frac{b}{2a} - \frac{b}{2a} = \frac{\pm \sqrt{b^2 - 4ac}}{2a} - \frac{b}{2a}$ Subtract $-\frac{b}{2a}$ from both sides

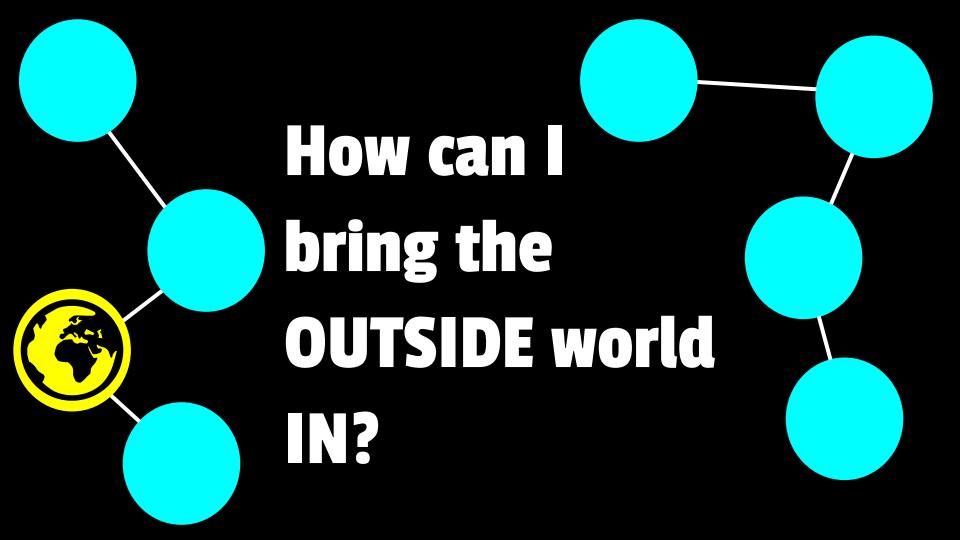


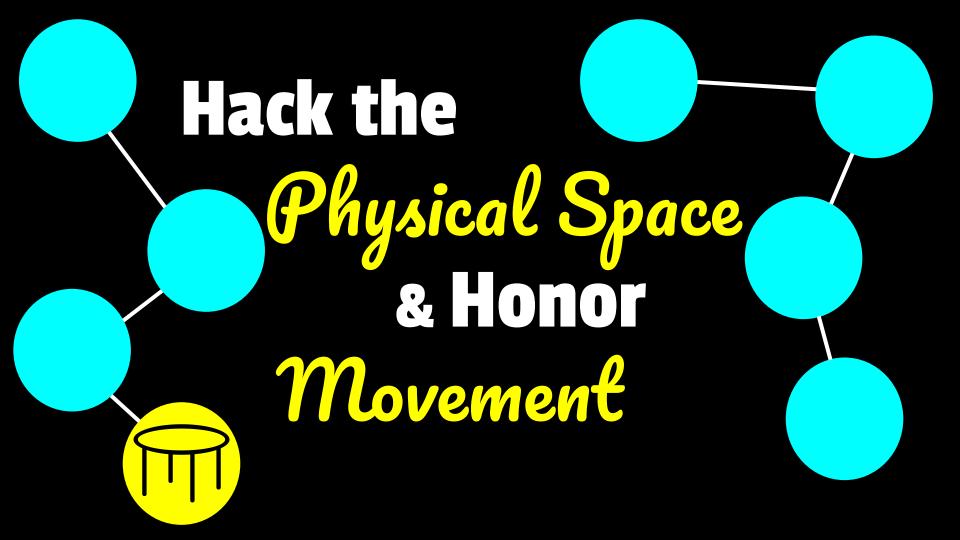
ODO **33343**

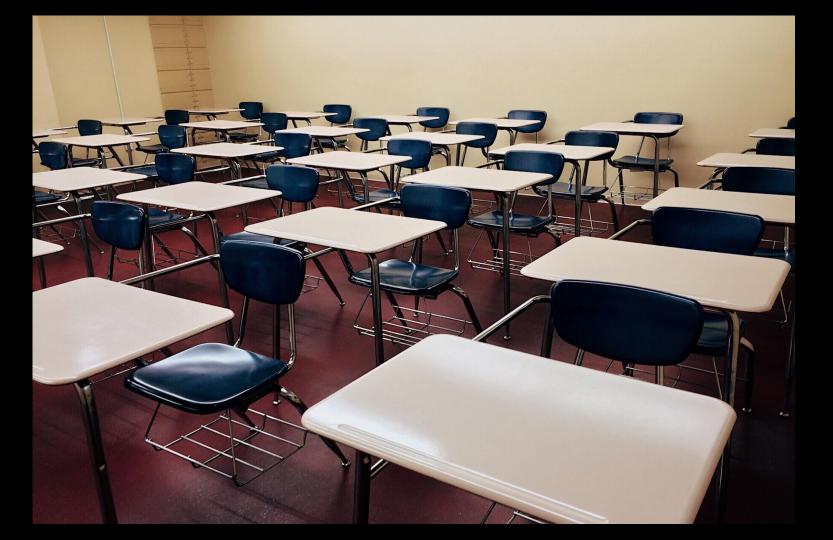


Barbie Bungie! Are you kidding me?!

themathlab.com







Desks/Tables/Chairs **Seating Arrangement Whiteboards VNPS** Lighting **Projector** Screens/TVs







Design Spaces for Collaboration

Design Spaces for Inquiry

Design Spaces for Movement







About

At Steelcase Education, we have a passion for understanding how teaching and learning best takes place and how smarter, active learning spaces can help. That's why we're offering a grant for an active learning classroom. Each grant includes: furniture, design review,

installation, onsite training and a Learning Environment

· Choose from 4 classroom styles

Evaluation measurement tool.

- Up to 30 students per classroom
- Up to 16 grants awarded per year
- Grant value: \$67,000
- Eligible Classrooms: Grades 6-12, colleges and universities

Key Dates

- Grant Opens Friday, December 1, 2017
- · Grant Closes Friday, February 2, 2018
- Grant Recipients announced Friday, March 23, 2018

Download Grant Overview

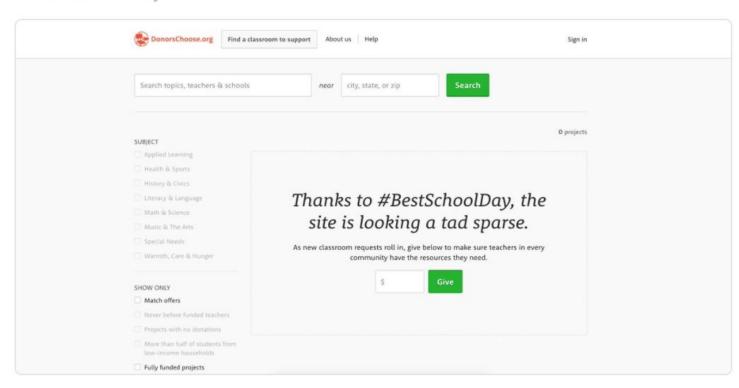


Desks/Tables/Chairs **Seating Arrangement Whiteboards VNPS** Lighting **Projector** Screens



DonorsChoose • Mar 28

Since DonorsChoose.org was founded in a Bronx classroom 18 years ago, the number of available projects on the site has NEVER read "0." Until last night! #BestSchoolDay





Born This Way @BTWFoundation · Mar 28

Happy #BestSchoolDay! Exciting news from our friends at @DonorsChoose -

@Ripple just funded ALL 35,000 classroom project requests on the site.

Congratulations to all of the amazing teachers who are part of today's celebration!





Movement

ABOUT







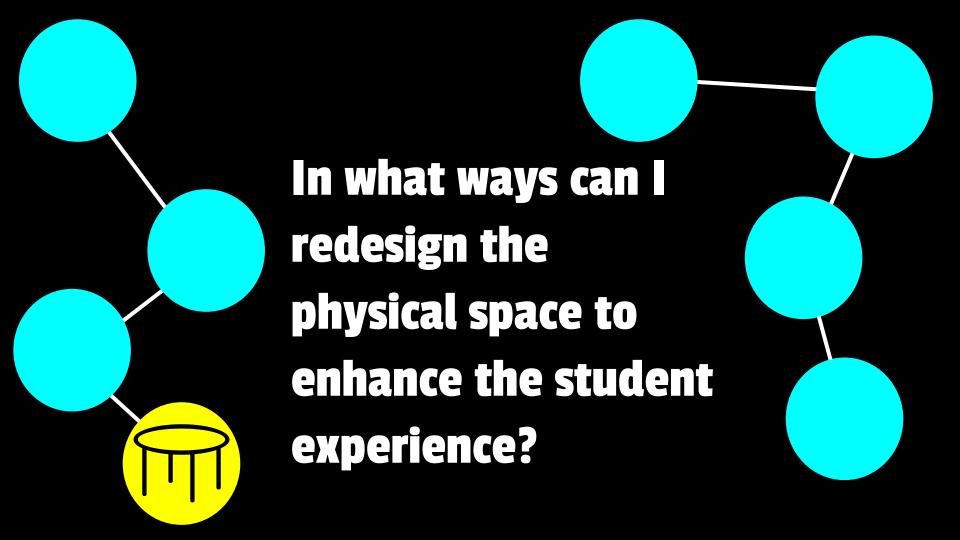
What I Learned By Doing What I Ask Students To Do teachthought.com/

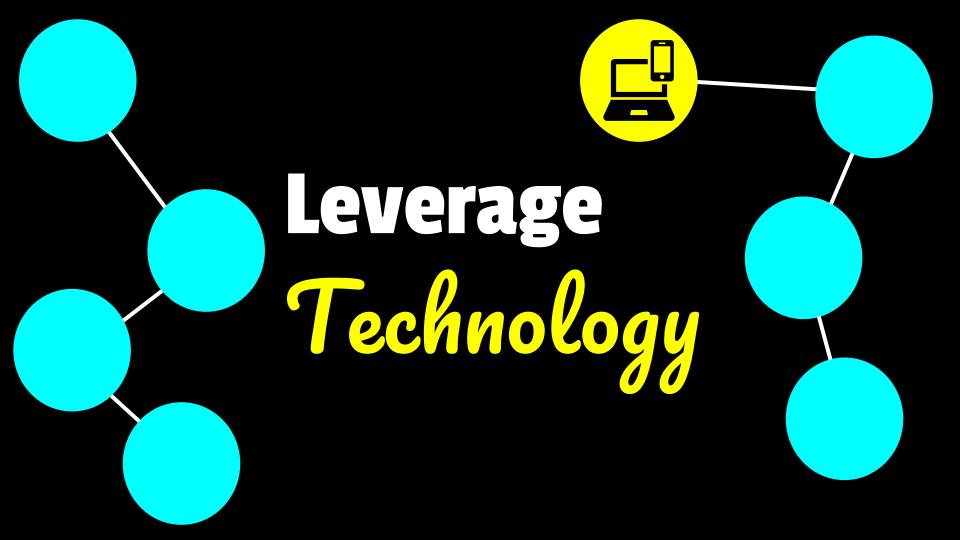
sitting is exhausting.

pedagogy/teach...

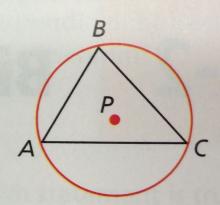
17 Retweets 40 Likes

4/6/18, 7:02 AM





The circumcenter of $\triangle ABC$ is the center of its *circumscribed* circle. A circle that contains all the vertices of a polygon is **circumscribed** about the polygon.



Materials

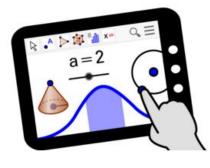
Downloads

Community

Help









Materials

Start GeoGebra

Downloads

GEOGEBRA

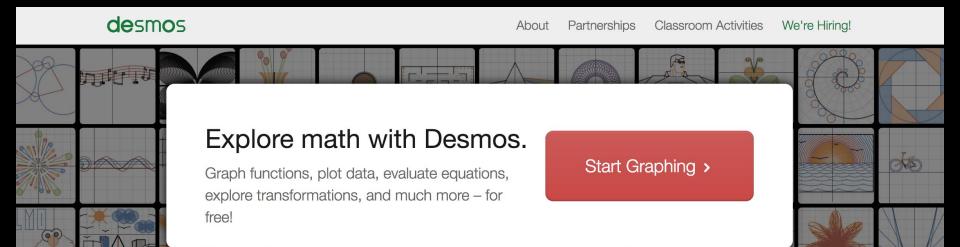
THE GRAPHING CALCULATOR FOR FUNCTIONS, GEOMETRY, ALGEBRA, CALCULUS, STATISTICS AND 3D MATH!

DYNAMIC MATHEMATICS FOR

LEARNING AND TEACHING

Consider printing out this tangent table for use on screens 5-11, prior to introducing the tangent function on a calculator:

Transformations





Four Function and Scientific

Check out the newest additions to the Desmos calculator family.

Four Function

Scientific



Teacher.desmos.com

Find the best digital activities for your math class — or build your own.

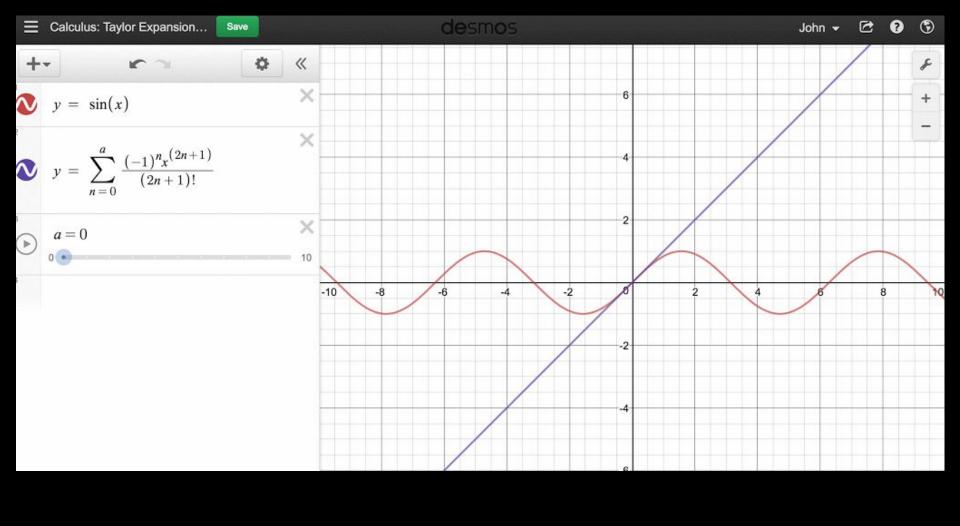
Classroom Activities

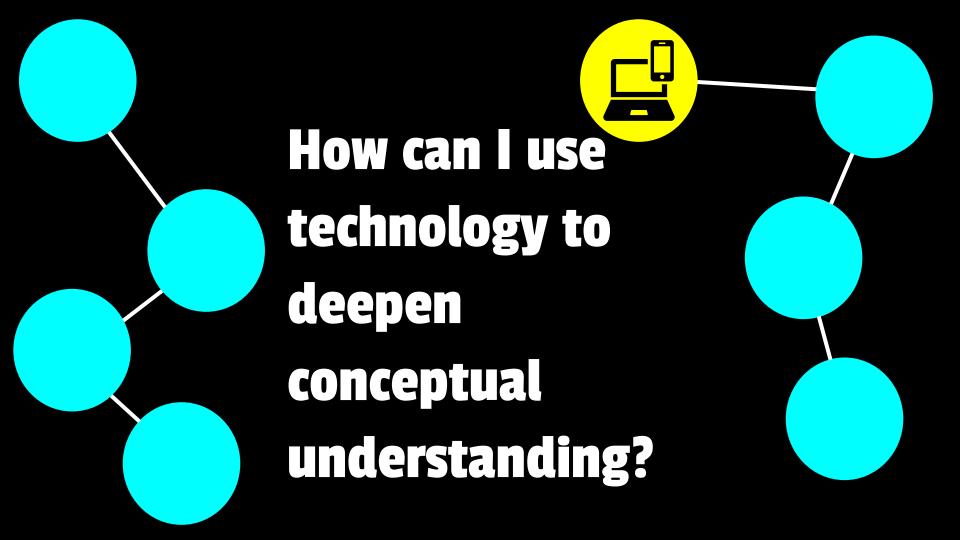


Learn.desmos.com

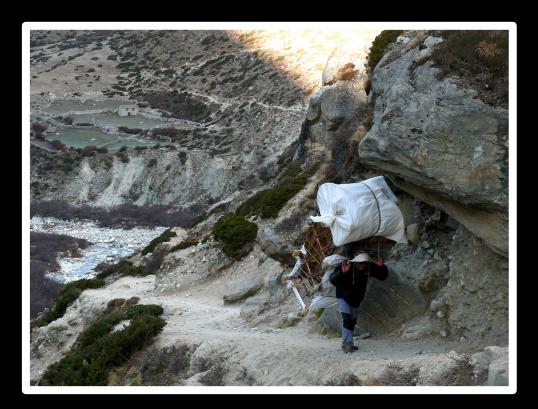
Level up your Desmos skills with videos, challenges, and more.

Learn More



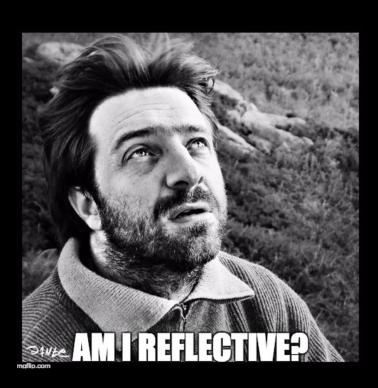






Leaders provide protection and direction.

Culture of reflection?





Culture of provoking student curiosity?



Jo Boaler

Dr Jo Boaler is a Professor of Mathematics Education at Stanford University, and the faculty director of youcubed. She is the author of the first MOOC on mathematics teaching and learning. Former roles have included being the Marie Curie Professor of Mathematics Education for Europe, a mathematics teacher in London comprehensive schools and a researcher at King's College, London. She is the author of nine books – including the best seller: Mathematical Mindsets - and she has received numerous awards for mathematics equity and leadership.

Culture of healing students from poor math experiences?

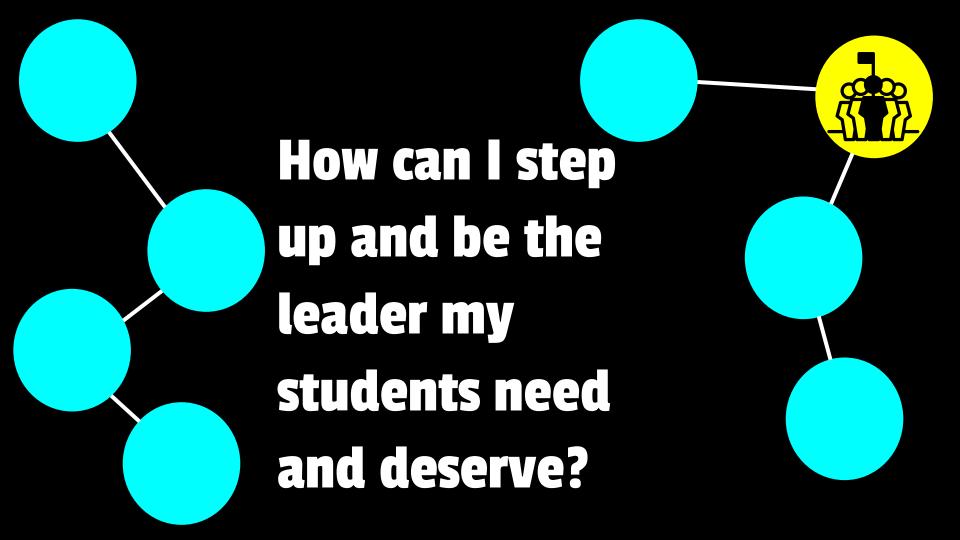
Culture of ridiculously pro wait time?

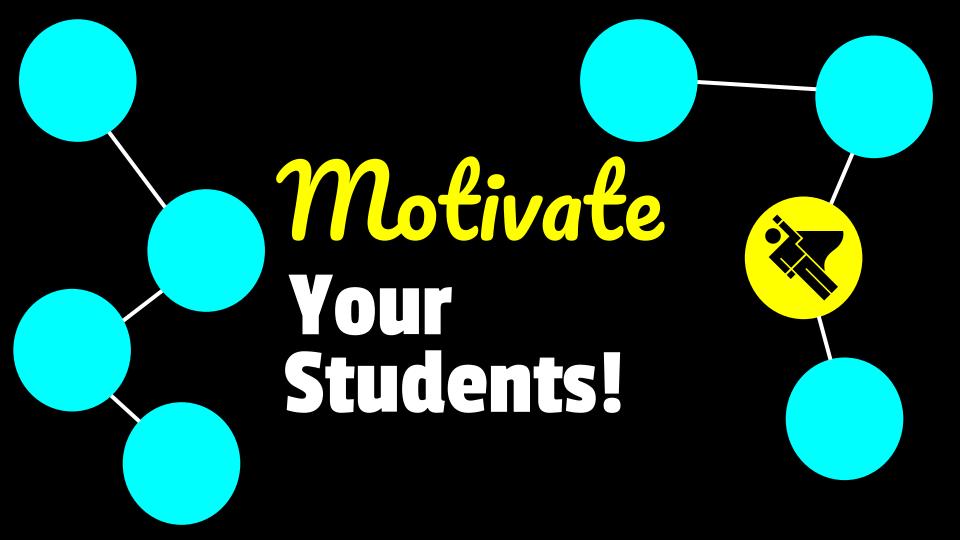


Culture of ridiculously pro wait time?









Motivation 3.0: Intrinsic

Motivation 2.0: Carrot / Stick

Motivation 1.0: Survival

NEW YORK TIMES BESTSELLER

"Provocative and fascinating." -MALCOLM GLADWELL

Daniel H. Pink

author of A Whole New Mind



The Surprising Truth
About What Motivates Us

Motivation 3.0

- 1) Autonomy
 Time
 Task
 Technique
 Team
- 2) Mastery
- 3) Purpose

NEW YORK TIMES BESTSELLER

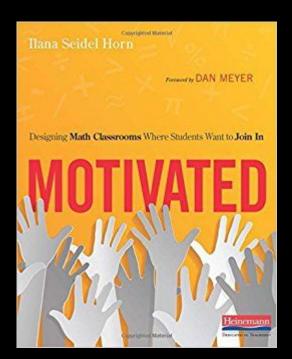
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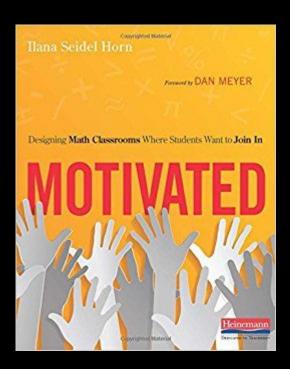
The Surprising Truth
About What Motivates Us



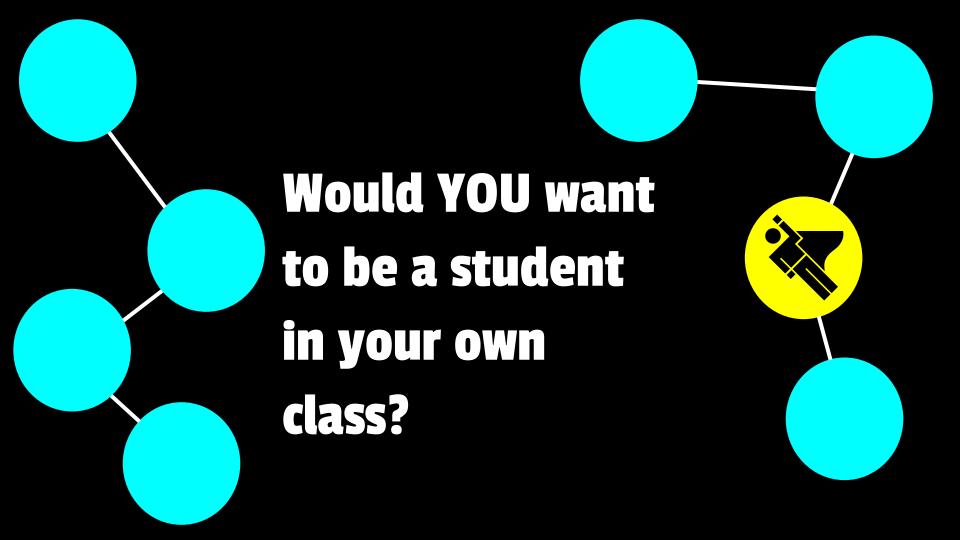


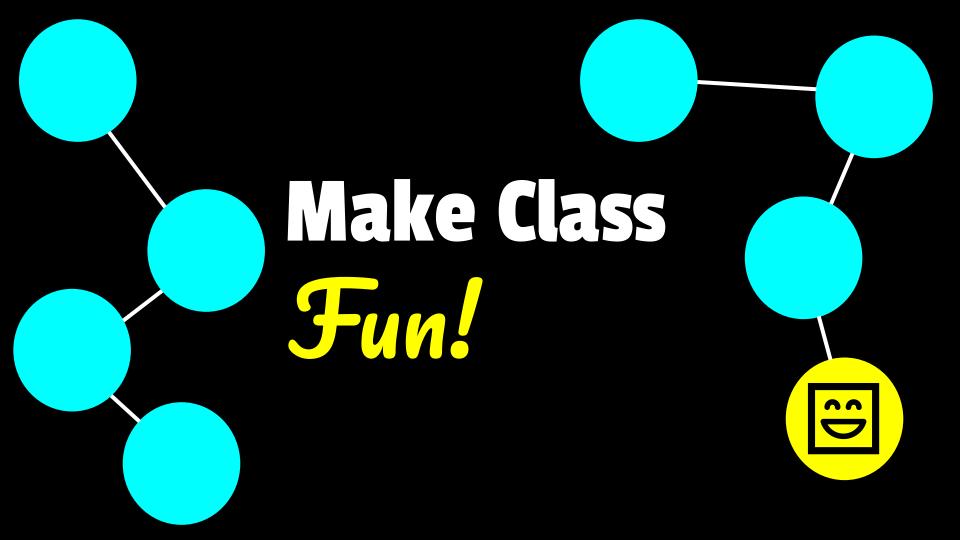
Llana Horn

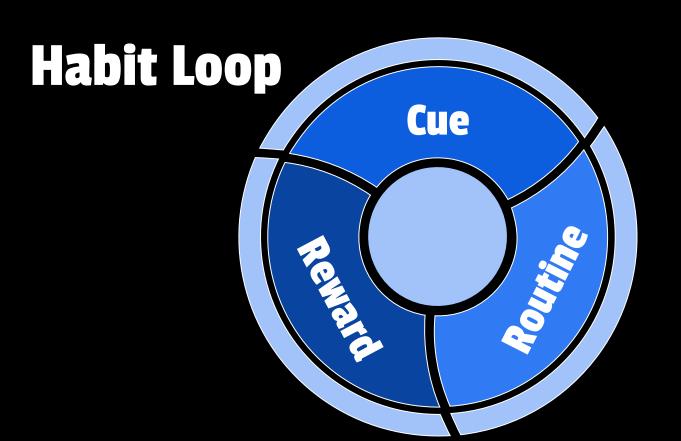
Mind. Blown.



Belonging Meaningfulness Competence **Accountability Autonomy**



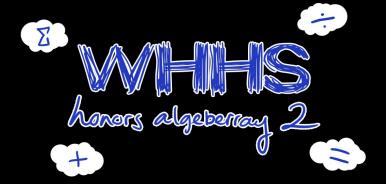




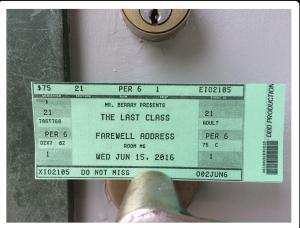




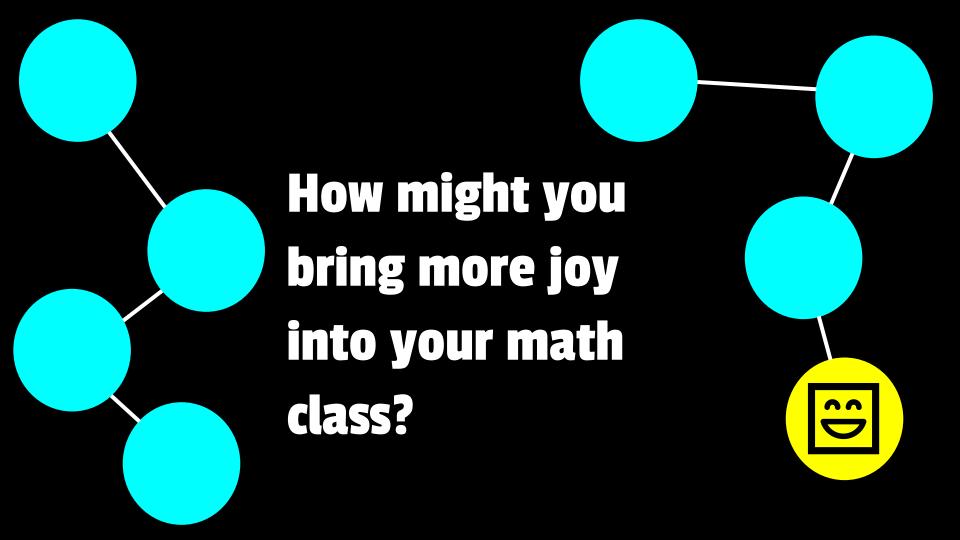














NEW YORK TIMES BESTSELLER

BLACK SWAN

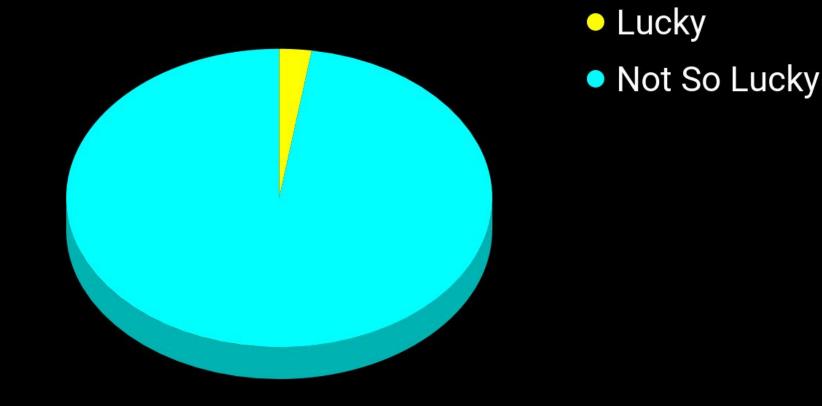


The Impact of the HIGHLY IMPROBABLE

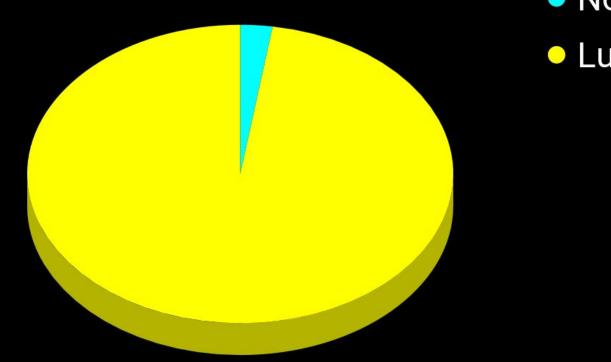
Nassim Nicholas Taleb

- **3 Characteristics:**
- 1) outlier
- 2) extreme impact
- 3) explicable narrative after it occurs

Chance of Student Landing a Legendary Math Class



Chance of Student Landing a Legendary Math Class



- Not So Lucky
- Lucky

Reflection Cove





See you at NCTM 2019 in San Diego!

