Teacher Sharing

Guidelines and Ideas for the Participant Teacher Sharing:

- A specific problem that all of your students can engage with, regardless of perceived level.
- A specific differentiation or intervention "go-to move" you use as part of your teaching.
- A general type of task or activity you have found to be successful in engaging a wide variety of learners.
- A routine in your classroom that prevents students from getting "stuck" or "bored" on a problem.
- A norm that has been established in your classroom.

Possible ideas to consider in your presentations/description:

- * helpful links, resources, or articles
- * prep time
- * materials
- type routine, strategy, applied to certain levels
- * why you find it valuable
- * what didn't work, adjustments/modifications
- * how long it takes
- * type of grouping
- * concrete examples, pictures
- * how to introduce/teach to students
- * balance how and the why

Directions

- Add a slide to this slideshow
- Put your name (optional: email and twitter handle) in the lower right corner
- Include your title and a few bullet points about what you're sharing
- You'll have 1 2 minutes to present

*If you don't have access to a computer just let someone know you'd like to share and we'll make a slide with your name on it

*If you've already sent it over and don't have a device we will add it

Name Email Twitter goes here!



Distance Between Points

Part 1: Use the map to write the coordinates of each location.

Carousel	Bumper Cars	Roller Coaster	Parking Lot	Submarine Ride
Petting Zoo	Haunted House	Swings	Pizza Parlor	Teacups

Part 2: Use the map to find the distance between two locations.

Submarin	16.	110 1 &		Perling
Ride		\$w	ings	工丨
		1 1		<u> </u>
$ \cdot \cdot $	1	8		
	Bumper Cars	7	Ferris	Ι
		6	Wheel	Part 2: Use
		5		
		4		***
		3		
		Pizza	Restroo	ms
		Parlo	C WHITOOM	1 1 1 6
10 -9 -6 -7	7 -6 -5 -4 -5	-2 -1 1	2 3 4 5 6 7	8 9 10
	254	-1	180	
		-2		
	Teacups	-5	Roller	
		-4	Coaster	 -

Donna Reicher Email: dhyland@schools.nyc.gov Twitter goes here!

What's Going On in This Graph?

Kathleen Carter kbdscarter@gmail.com @kbridgescarter

Desmos/NYT



\$ S

Baseball WAR | April 17, 2019

by Desmos

This graph, which originally appeared in a New York Times article, includes high their team using salary and the baseball statistic WAR -- Wins Above Replacen additional wins his team has achieved above the number of expected team win player.



E-Commerce | April 10, 2019

(by Desmos

This graph, which originally appeared in the New York Times, shows the chang

TRY IT as a student: Click here

teacher.desmos.com



First Leaf | April 3, 2019

by Desmos

This graph, which originally appeared in the New York Times, shows the average mathematical model that uses data from 1981-2010.

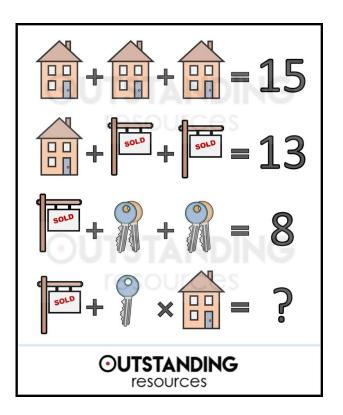


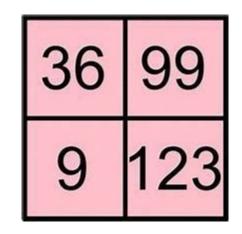
World Migration | Mar 27, 2019

(by Desmos

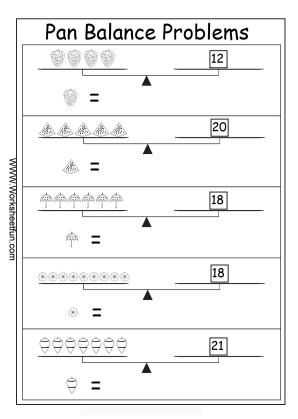
This graph, which originally appeared in the New York Times, shows world migr

Number sense discussions









Earlene Sorrento

Modified Standards Based Grading

Standards

- Graded using a Rubric. (PDLN)
- Students have the ability to retake any standard.
- Content Standards
- Process Standards (Justify, Tools, Preparation)

Remediation Process

- Quiz Corrections
- HW Completed
- Extra Practice
- Conference with Teacher
- Retake

Traditional Aspect:

- Unit Tests
- Graded Tasks



P - Proficient

D - Developing

L - Limited Proficiency

! **N** - Novice

Christina Rossi crossi@pascack.org
@RossiOosting

STAMP! "Performing Arts in Math & Science Classrooms" Speed Dating Activity - Numbers

Hi, I'm pi. As time goes on, you will learn more and more about me. I am very well rounded, but I also



I am interested in finding a number that appreciates my hidden digits, and I don't like when people cut me off before I get to share my story.

Name: Jenny Palumbo Email: ypalumbo@schools.ny

02:00

Email: ypalumbo@schools.nyc.gov Twitter: @jennypalpal



Geogebra

https://www.geogebra.org

Xinxi Lin xlin8@schools.nyc.gov

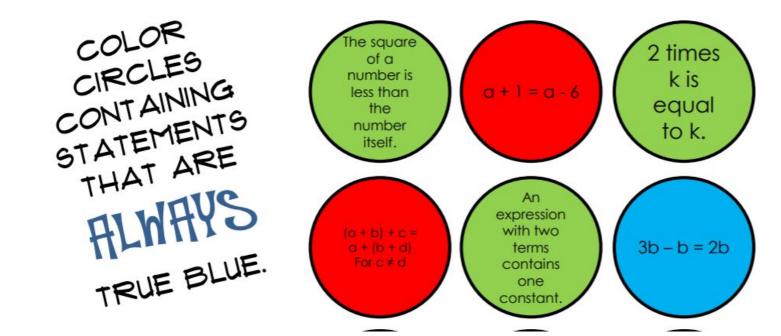
Twitter @Lin10Cally

Twitter: @Lin19Sally

GeoGebra



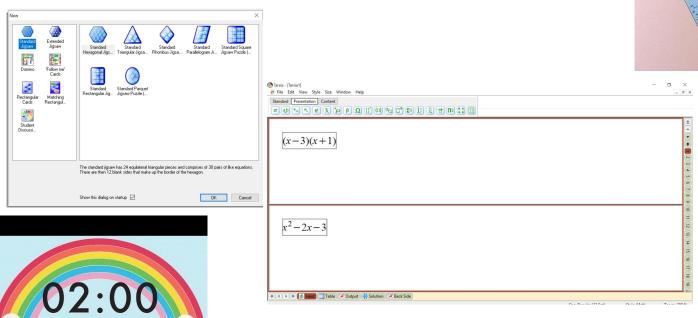


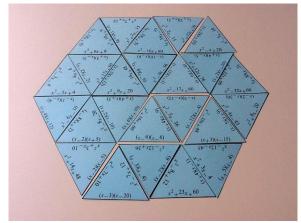


Lori Napoli Inapoli@schools.nyc.gov

Tarsia Puzzle Software

• Software Link: http://www.mmlsoft.com/index.php/products/tarsia





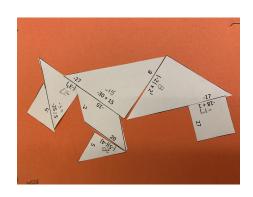
Sample GCF Puzzle

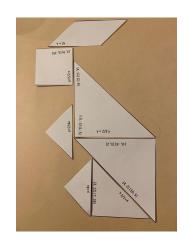
Anna Panova - Cicchino apanova@gmail.com @harpgirl555

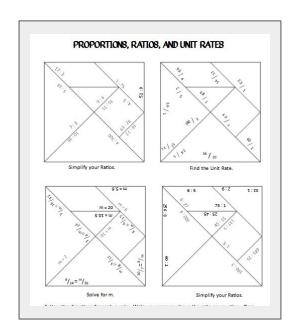
Puzzles

02:00

- > Tangram, triangle puzzles
- Reinforce the skills that we are learning
- Student Choice
- > Center Work or Homework
- Differentiate the skills on each puzzle







Name: Denise Blain

Email: dblain@edgewaterparksd.org

Twitter: @BlainlySpoken

Frayer Model for Vocabulary Study

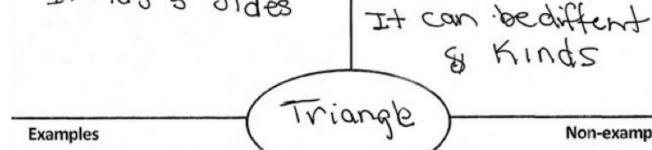
The Frayer Model is a visual organizer that helps students understand key words and concepts.

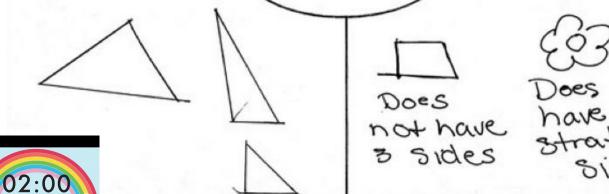
- The Concept Word
- Definition (Own words)
- Characteristics/Facts (3+)
- •Examples (3+)
- Non-examples (3+)

Jian Liu(刘健) Jian.Liu@nysed.gov @LXJSmonk

It is a shape It has 3 sides

Definition





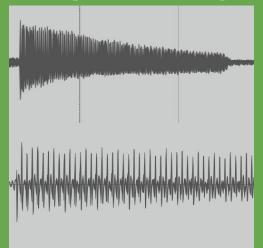
Facts/Characteristics

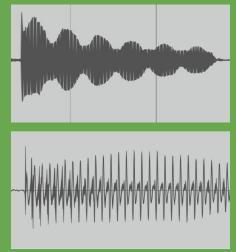
Non-examples

It can be different

SIZE

Using recording to demonstrate sinusoidal graphing





To help in teaching the graphs of sinusoids, I use a recording software to show them that periodic functions are all around us.

Amplitude is the Volume.

Frequency/Period manifests as Pitch.

Phase shift and addition can be shown using Chorus and Phaser effects.

Josh Muscella jmuscella@lcmail.org @mrmuscella



Section 1 of 6

Summer Assignment Feedback

Please complete this feedback form by the first day of school, Tuesday, September 3, 2019. Your responses will help me customize the introductory review to your needs. It will not be graded, but you will receive credit for completing it.

Use the linear scale 0-3 to mean:

- 0 I am confident
- 1 I know how to answer this type of question
- 2 I was able to figure this out, but need clarification
- 3 I need clarification

Arpi Lajinian, NVOT lajinian@nvnet.org
@ALajinian



Non-Permanent Vertical Surfaces

BUILDING THINKING CLASSROOMS: CONDITIONS FOR PROBLEM SOLVING

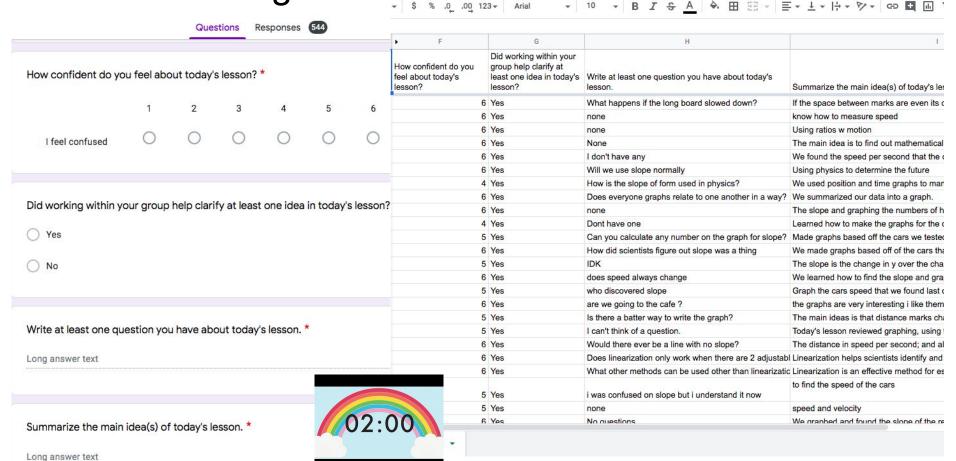


Making student thinking visible!



Making Math Moments that Matter Podcast Episode #21

Exit Ticket Google Form Format Data Tools Form Add-ons Help All changes saved in Drive



PhET Simulations



https://phet.colorado.edu/en/simulations/category/math

- -- simulations and interactive models
- -- labs
- -- lesson plans
- -- free, but request sign in

Elizabeth Filip lizzyb.filip@gmail.com



I can't decide! You pick.

Illustrative Mathematics MS
Curriculum

(Open up Resources)

https://access.openupresources.org/curricula/our6-8math/en/ccss/index.html

Why, as an 8th grade math teacher I take the SAT every spring. (And you should too.)

https://collegereadiness.collegeb

Random seats everyday? Yup!

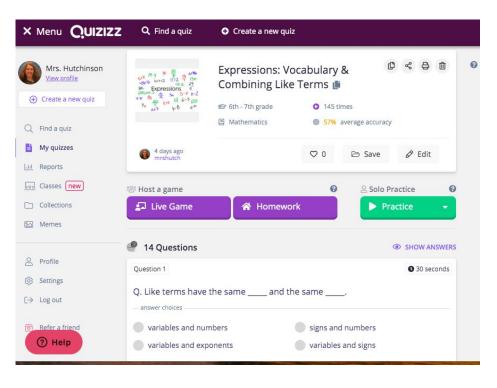
http://peterliljedahl.com/wp-content/uploads/Building-Thinking-Classrooms-Feb-14-20151.pdf

https://flippity.net/RandomNamePicker.htm

Natalie Perez
Natalie.Perez@BoontonSchools.org
@MathyMomTo5





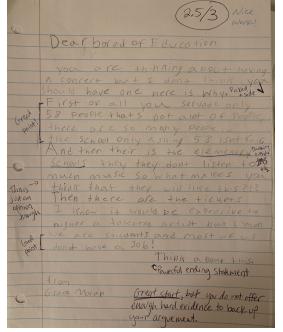


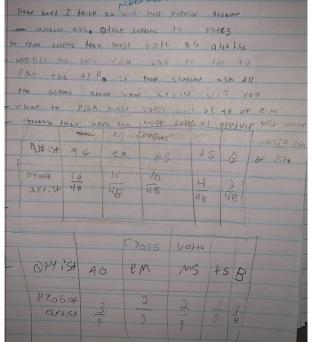
- Set as "Homework" and schedule in Google Classroom
- Play one time to check skill knowledge OR
- Play unlimited times to review concepts
- Analyze by question if desired
- Top 5 get lollipops!

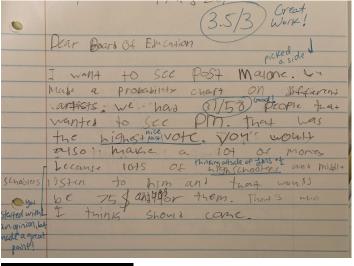
Julie Hutchinson hutchjulie@gmail.com
@hutchjulieNJ

Alternative Assessment

PROMPT: The Lawrence Township Board of Education has decided to have a big concert on January 2nd so students can celebrate the new year together, but, they do not know which artist to hire. So, the board decided to take a poll in LMS. Based on this poll, the board will choose which artist to contact. The options are Ariana Grande, Maroon 5, Post Malone, Travis Scott, and Bruce Springsteen. Tickets will be \$10 for grades K-3, \$20 for grades 4-6, \$40 for grades 7-8, \$50 for grades 9-12, and \$75 for anybody else.









Sevda Sadik sadiks1@tcnj.edu https://sadiks1.wixsite.com/ the-portfolio/practice

3 ACT MATH TASKS

An Introduction of using 3 Act Math Tasks as Problems of the Week

A Three-Act Task is a whole-group mathematics task consisting of three distinct parts:

- An engaging and perplexing **Act** One,
- An information and solution seeking, estimate, Act Two
- A solution discussion and solution revealing Act Three.
- 3 Act Math Task Activity Sheet
- Answer Sheet 2
- Padlet for Collaboration Responses

SAMPLE 3 ACT MATH TASKS

King Clutch Fractions, Decimals, Percents

Paper Cuts Fractions and Area

Paul Sturgess Fractions

A Billion Nickels Decimals

Mini Me Fractions



By Coshetty Vargas
Totowavargas@yahoo.com

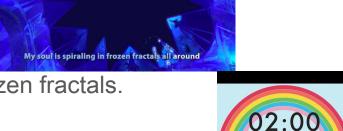
Extras before Winter Break

https://www.youtube.com/watch?v=L0MK7qz13bU

- ★ Frozen video, pause it at 2:46, when she sings frozen fractals.
- ★ Fractal posters in room
- **★** Define fractals
- ★ Hand them a prepared circle with six lines, they make own frozen fractal.(alt.)
- ★ All my classes, last year some "slower" students were better at it, this year I learned a lot about students' perception difficultlies.

https://www.youtube.com/watch?v=CEwWM7bhi8Y

- Rockettes Toy Soldiers, demonstrate Angular Speed
- Have them perform as the Rockettes





Want to give instant feedback on homework?

Use this website to assign homework

www.deltamath.com



Manju Ukey manju.ukey@gmail.com



Print on Post-its

I use these all the time, and have shared this trick with kinder-8th grade teachers.

Useful for graphs, notes, editing marks, group roles, exit tickets, QR codes, short rubrics, etc.

https://tatertotsandjello.com/diy-secret-how-to-use-post-it-notes-in-your-printer-free-printable/

This is the first site I found, has a good spacing grid to print from

https://learninginhand.com/blog/print-custom-sticky-notes-with-google-slides

This is has some super-cute designs ready to go.

https://www.weareteachers.com/printing-on-post-its/

This has rubrics, graphs, etc.

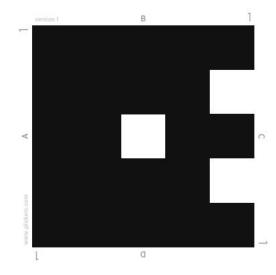
Katherine Futia auustin@yahoo.com

GEMS FROM UNIVERSITY OF WATERLOO FOR MATH TEAMS AND ENRICHMENT

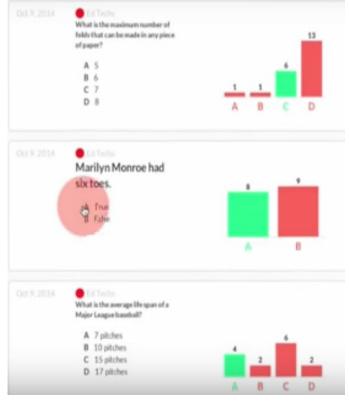
HTTPS://WWW.CEMC.UWATERLOO.CA/EVENTS/MATHCIRCLE_PRESENTATIONS.HTML



ELIZA KUBERSKA HUNTER COLLEGE HIGH SCHOOL COGITA@GMAIL.COM









- -Plickers.com
- -Each student has an assigned plicker
- -Free
- -Instant results
- Cards work for several classes.
- -Sharable sets(pro)

Carolina Londono Hubbard Middle School Iondono.carolina1@gmail.come

Coherence map

Find at achievethecore.org



NJ DIGITAL ITEM LIBRARY - All released state test questions in an easy to access and use format.

- Maps the standards & the foundational & future standards that are connected.
- Links to Illustrative
 Mathematics & other tasks.
- Links to the Progression documents.
- Remediation, enrichment, etc.



Ann Marie VanSickle amvs21@gmail.com @amvansickle