

## I LOVE YOU

#### I LOVE YOU

You're probably thinking

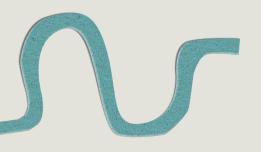
- you don't even know me.

That's true. But if people can hate for no reason,

I can love.

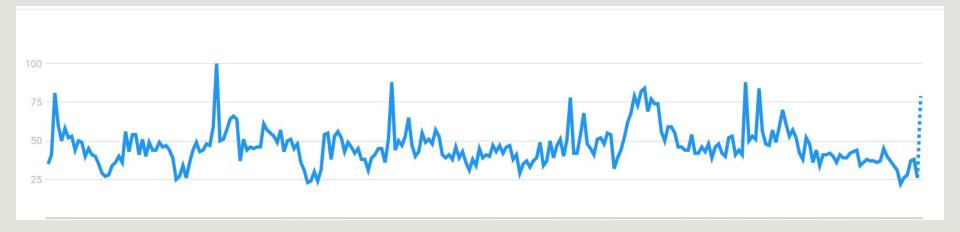




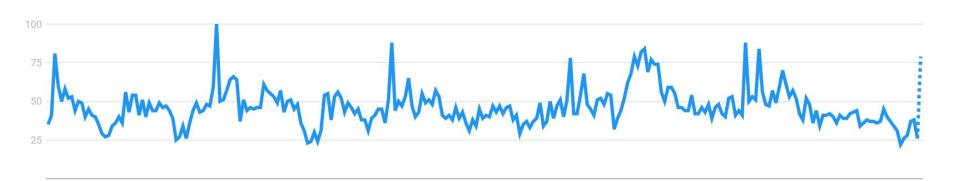


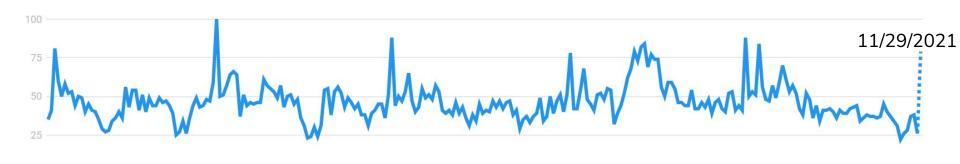
## **NOTICE & WONDER**

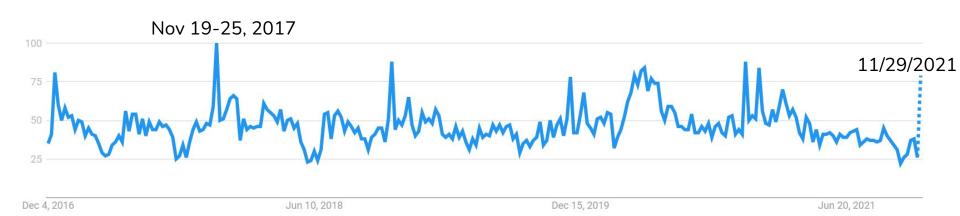


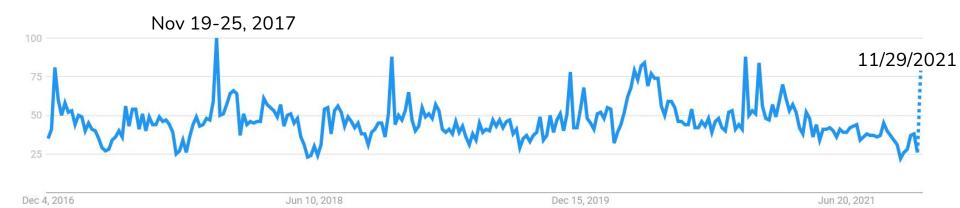


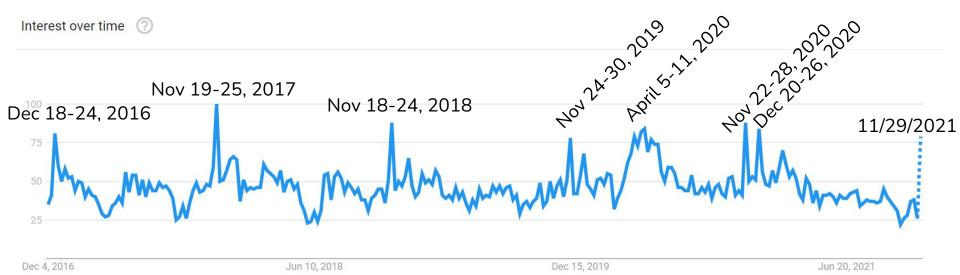
#### What do you notice? What do you wonder?

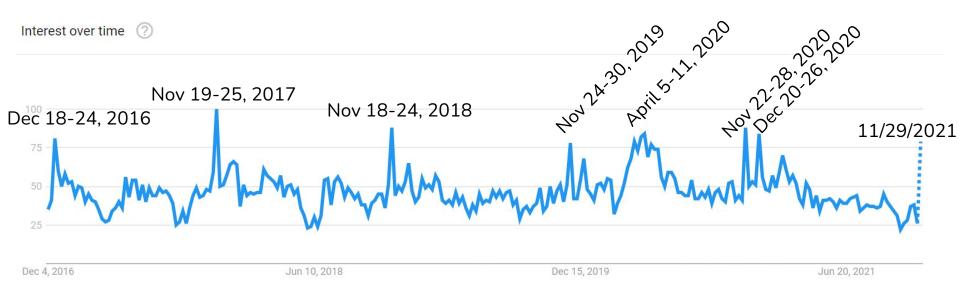




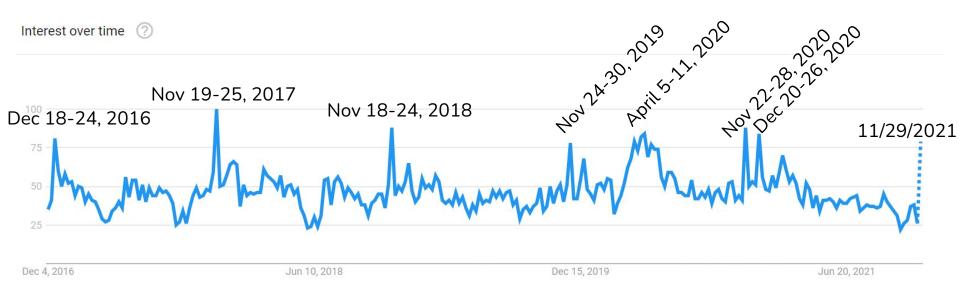






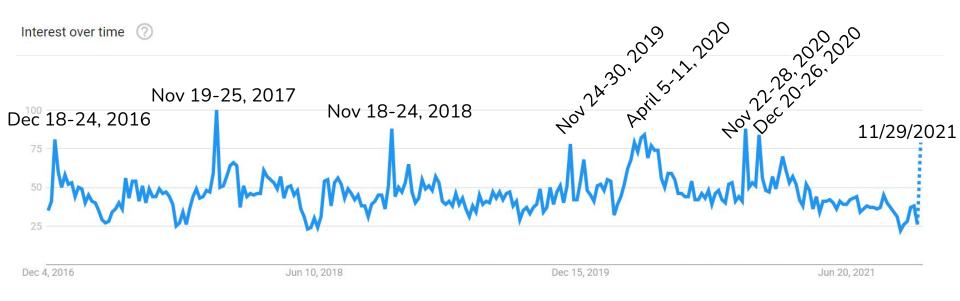


Google Search History: "How many tablespoons in a cup?"



Google Search History: "How many tablespoons in a cup?"

What will the graph look like in one month?

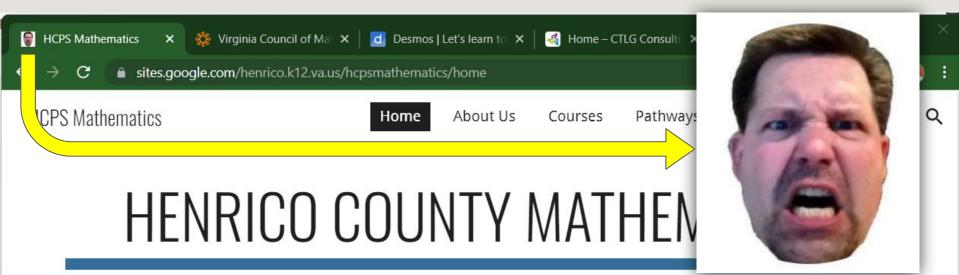


Google Search History: "How many tablespoons in a cup?"

What will the graph look like in six months?

## **ABOUT SKIP TYLER**

 Retired from Henrico County Public Schools after 31 years (18 high school teacher, 13 math supervisor).



October 2022

## **ABOUT SKIP TYLER**

- Math instruction is my passion
- I'm a 12-year old trapped in an old man's body
- I like to take people's phones and secretly take selfies
- My slogan or motto...

## Everyone Is A MATH Person #ChangeTheStory

## WHO ARE YOU?

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## WHO ARE YOU?

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## LEARNING INTENTION

 Identify instructional practices and strategies that we know work.

Find the BETTER!



## **SUCCESS CRITERIA**

 I can identify best instructional practices and strategies for advancing meaningful student learning.

I can continue to reflect upon my own practice and get

better.





## THE NEW <del>NORMAL</del> BETTER

What does this mean?



## WHAT IS THE NEW BETTER???

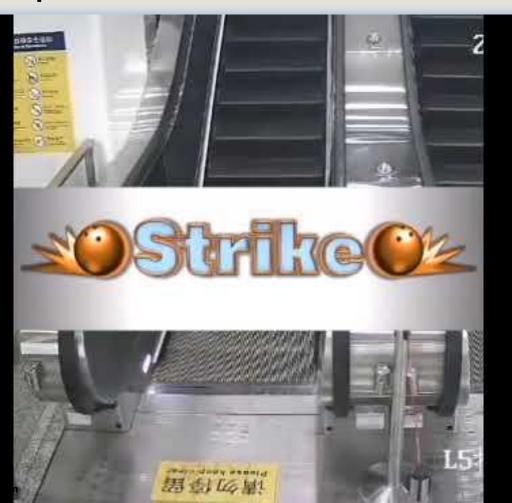
Every year I reflect on previous years. (This is year 32 for me)

Over the past 18 months, people keep saying "This is the new normal".

However, there is nothing normal about what we are doing!



#### If I could represent the last 18 months as a TikTok video, this would be it.



We could see
things coming but
we just couldn't
react quickly
enough to address
the problem.
Instead, we were
reactive.

## LET'S PRACTICE REFLECTING

You are planning a vacation!

- Where are you going?
- What type of lodging?
- How are we getting there?
- Who is going with you?



When we dig into past experiences, some things subconsciously (good/bad) come to mind. All previous experiences are filtered and some emotions are suppressed.

## **LET'S DO IT AGAIN!**

# What is the perfect class?



Content? Students? Environment?

Did you use any negative experiences to identify the class?

How many people went straight to a person they didn't want in the class?

### **OUR GOAL TODAY**

Let's think about the perfect classroom.

What are the things we learned over the past 2 years (good and bad)?

How are we going to create the "New Better"?

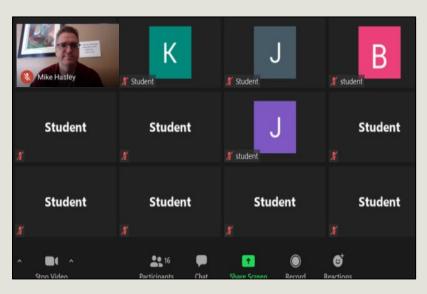
#### **Alike and Different**





This is what we were discussing Pre-COVID...

#### **Alike and Different**



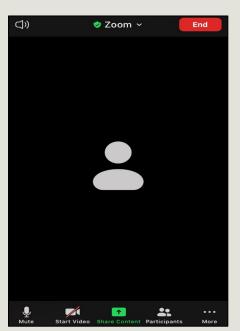


#### **Alike and Different**





#### **Alike and Different**







This is what it is all about!



#### Full disclosure

I started using this phrase last school year.
Education just wasn't ready for it since we were still dealing with so many side effects of pandemic teaching

## Emotional Well-being

COVID

Shutdown

## The Path to the New Better



## **CONFERENCE THEME**

#### Moving Beyond: Reclaiming Best Practice

- It is time for the NEW BETTER
- Asset Based Mindset Moving beyond the focus on students' deficits and to focus on building students' capacity
- Let's take what we have learned from the last two years and apply it to what we already were doing!



## **Asset Based Mindset**

"If districts focus too much on remediating learning loss-holding kids back a grade level, categorizing students according to their deficits, and centering lesson plans on catch-up work—the students who have experienced the most trauma and disconnection during the pandemic may be assigned to the lowest level and most stigmatized groups. They will be viewed as deficient, and the inequities in place before and during the pandemic will be further amplified." (Berger, 2021)

## THE PROBLEM

How do we take the **positive** things that we learned over the past few years and add them to our toolkit of what we did prior to that?

How do we turn the **negative** things into action items to make it positive?



## SUCCESSES & CHALLENGES

#### INDIVIDUAL BRAINSTORM

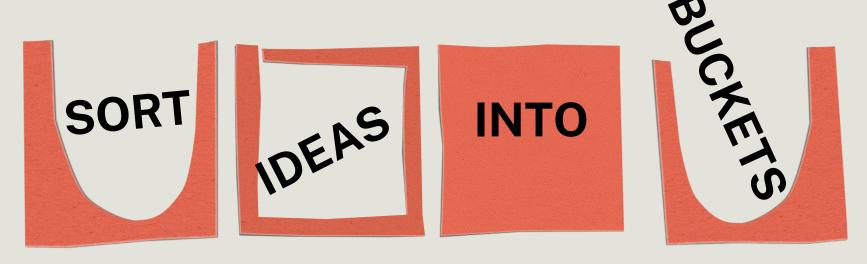
- What did you really enjoy or learn from "pandemic teaching"?
- What were the struggles?

Come up with as many solutions as possible. Write each one down on a separate sticky note - even the ones you don't think are great.

We want all of your ideas. Not just the good ones.



## **SMALL GROUP DISCUSSION**



Share all of your ideas and group the ideas that are similar.

Identify "big idea" themes for the buckets.

Try to come up with at least 4 key words for successes and 4 key words for challenges.

## SUCCESSES AND CHALLENGES

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## SUCCESSES AND CHALLENGES

#### Instructions

Goto

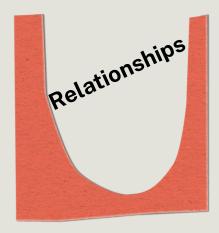
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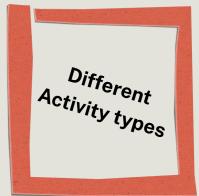
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#### SUCCESSES









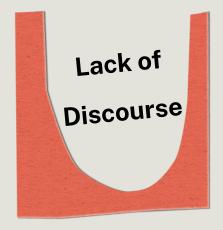
Created a different way to connect with students

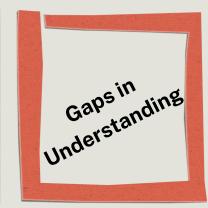
Developed digital resources to support virtual learning including student choice activities

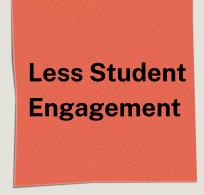
Gave students time to work at their own pace

More instructional conversations and sharing due to having to teach differently

#### **CHALLENGES**









Students have not had to speak to anyone for discussion and sharing of ideas.

Students didn't master the prerequisite content or used online support for answers.

Students could hide and not participate due to virtual learning and social distancing. Easy for students to hide and not feel supported. Lack of peer interactions.

#### TIME WARP

We are having the same conversations that were occurring prior to COVID. The good news is that we are back to having conversations about instructional best practices.

It's time for...

## Top 5 things we knew before the pandemic!



#### TOP 5 THINGS WE KNEW BEFORE THE PANDEMIC

- Whoever does the talking does the learning students talking.
- Discourse should be like
- 3. Relationships K nurturing environme
- Our instruction show
- Students are very good at Liljedahl). They know wha

We are at an amazing

place in education.

It's time to

#ChangeTheStory!

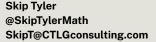
ok:

hinking Classrooms - Peter and in

Get students thinking and get

to manipulate the system.

id establish a







Where do we go from here?

#### WHERE DO WE GO?



Let's start with a focus on the following:

- Build community
- Increase student discourse and utilize sentence starters
- Place value on the think PROCESS and not the PRODUCT
- Provide open-ended thinking opportunities
- Teach the curriculum while embedding and spiraling back content

This is how we can close gaps in understanding!!!



#### HAND SIGNALS & MATH TALK

When you come up with the same solution or strategu as another mathematician, silently signal

"MC +001" to let other mathematicans know that you agree with them!





When you're solving a math equation in your brain, and you've already thought of two ways to find the solution, sliently signal for

"I have the solution and one S+CQ+CGYI" while other mathematicians continue to think!

When you're solving a math equation in your brain, and you've already thought of two ways to find the solution, silently signal for "I have the



then continue to think of additional strategies while other mathematicians also continue to think!

@SkipTyler Math Mou can always add additional Angers as you come up with more and



Skip Tyler

**SURN Math Davs** October 2022

#### SENTENCE STARTERS

Another idea I had was	I was confused (wondering) about	How or why did you?	I agree with because
I have a different way to explain	I have the same answer, but my explanation/strategy is	Your answer/strategy reminds me of	I disagree with because
Can you explain more about	I have a different answer because	One thing that I like about your answer is	Your idea and my idea are similar because
Your idea and my idea are different er because	I like how you used the math vocab,to explain it.	Instead of, you can use the math word to explain.	I would like to add on to that idea  SURN Math



 We have the opportunity to create a new educational system for students. Let's retrain students and show them what a BETTER classroom looks like!

#### Where do I start?



#### TRADITIONAL MATH STRUCTURE

5 minutes Warm Up

15 minutes Homework Check

# Everyone Is A MATH Person #ChangeTheStory

Students attempt to solve problems in the same way the teacher solved them. The teacher walks around the room monitoring the students.

5 minutes

Assign Homework



ted! #NCTMLA2.

Stay Connect

Nat Banting via Twitter - NCTM presentation

You do it again

### Everyone Is A MATH Person #ChangeTheStory

ala It.

kitchen table becomes a place of pain and suffering.

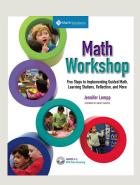
natbanting.com



Skip Tyler

@SkipTylerMath
SkipT@CTLGconsulting.com

#### MATH WORKSHOP STRUCTURE



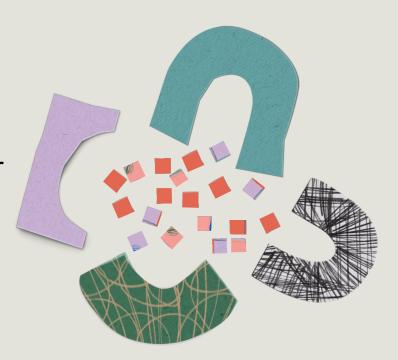
TASK & SHARE		FOCUS LESSON, GUIDED MATH, & STATIONS		GUIDED MATH & STATIONS			
approx. 5-10 min.	NUMBER SENSE ROUTINE	approx. NUMBER SENSE ROUTINE 5-10 min.		approx. 5-10 min.	NUMBER SENSE ROUTINE		
approx. 30 min.	MATH TASK One task is given, students work in collaborative groups. The teacher moves to small groups and provokes thinking through asking good questions. This task typically has multiple entry points, allowing for all students to have access to this problem. This could be a parallel task or open-ended question, one that supports differentiation.	approx. 15 min.	FOCUS LESSON Whole group focus lesson that is well planned to allow for differentiation.				
approx. 20-25 min.	TASK SHARE & REFLECTION Students share out about the various strategies that were used. Students ask questions, clarify their thinking, modify their work, and add to their collection of strategies in their tool box.	approx. 30 min.	GUIDED MATH Teacher meets with groups of students in heterogeneous and/or homogeneous groups for small group instruction.	STATIONS Students are working on engaging activities that are mathematically purposeful. These activities could be in the form of a single, cognitively demanding question or a variety of stations in which student choice is a factor.	approx. 45 min.	GUIDED MATH Teacher meets with groups of students in heterogeneous and/or homogeneous groups for small group instruction.	STATIONS Students are working on engaging activities that are mathematically purposeful. These activities could be in the form of a single, cognitively demanding question or a variety of stations in which student choice is a factor.
		approx. REFLECTION 5-10 min.		approx. 5-10 min.	REFLECTION	enoice is a factor.	

Skip Tyler @SkipTylerMath SkipT@CTLGconsulting.con

#### TURN AND TALK

- How does the math workshop model compare to that of the traditional model?
- What do you notice about the three structures?
- What resonates with your current work or beliefs?

TASK & SHARE		FOCUS LESSON, GUIDED MATH, & STATIONS		GUIDED MATH & STATIONS			
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ting c	om	approx.	REFLECTION		approx.	REFLECTION	



#### **CONFERENCE THEME**

#### Moving Beyond: Reclaiming Best Practice

- It is time for the NEW BETTER!
- Stop worrying about the curriculum.
- Get students to think. Whether it is Reasoning Routines, Tasks, activities...thinking will make teaching easier. This is how you build confidence, self-efficacy, and helping students become a mathematician.
- Rough Draft Math, Building Thinking Classrooms, Math Workshop



My next session will be discussing Reasoning Routines!

Elementary Mentimeter

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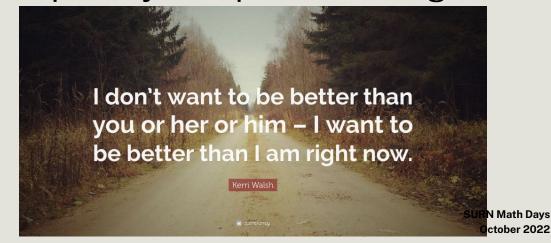


#### **SUCCESS CRITERIA**

 I can identify best instructional practices and strategies for advancing meaningful student learning.

I can continue to reflect upon my own practice and get

better.



#### **CLOSURE**

- It's easy to go down the rabbit hole and complain about what it's not right in education today. I'm guilty of it too. And I think that's part of human nature to talk like that. But we have to stay focused on what is really important. The students. The now.
- Kids have different skills in their toolbox than before. It's not learning gaps. We need asset-based learning. We have to change how WE teach. That is my charge to you.
- Now is the time to change the story. Shake up the system. Make the change.
  Be the change.

# Everyone Is A MATH Person #ChangeTheStory

