# Webinar | Feb. 21 at 3pm ET Mathing Out Loud: How Student Talk Can Accelerate **Learning for All Students**

Co-hosted by: Kevin Dykema, Lindsey Henderson, Jackie Ricks, and Kristen Reuter, and Joseph Hyun





## **Meet Your Facilitators**



Kevin Dykema President National Council of Teachers of Mathematics



Lindsey Henderson Secondary Mathematics Specialist Utah State Board of Education



Joseph Hyun Head of Partner Success TeachFX



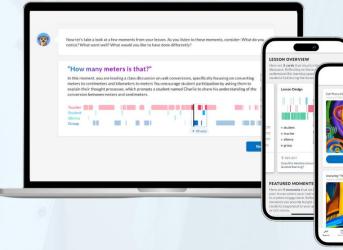
Kristen Reuter Mathematics Teacher Brighton High School | Canyons SD



Jackie Ricks Instructional Coach Brighton High School | Canyons SD



# TeachFX helps teachers get students talking.



Record Share Reflect TeachFX



## **1.** Inquiry-based math instruction

### 2. Engagement mindsets

**3. Leading indicators of learning** 



Nationwide, post-pandemic math scores are showing the largest decline since 1990 (when the NAEP was first administered).



### points

First ever score drop in mathematics

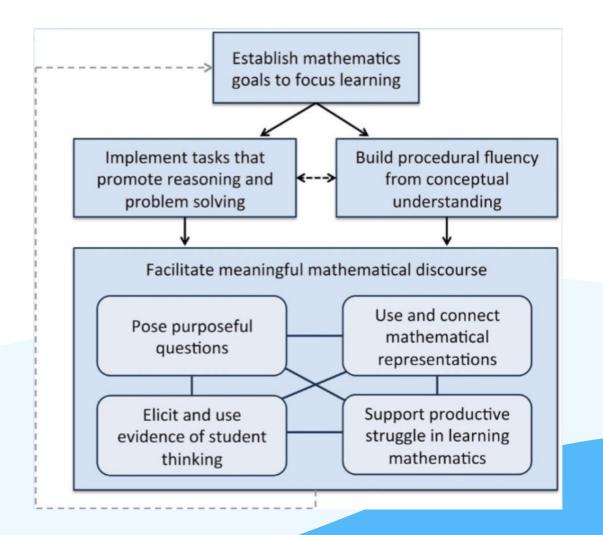
The Nation's Report Card, 2022



### On average, teachers talk 80% of the time. (Hattie, 2012)

TeachFX analyzed 20,000 hours of classroom lessons and found the average student spoke for just 27 seconds per hour of instruction.





How inquiry-based math instruction can incite curiosity, unlock brilliance, and accelerate learning for <u>all</u> students.



Utah's state-level resources like the Mathematics Framework, **Evidence-Based** Practices Menu, and more, support teachers' adoption of inquiry-based teaching.

#### Utah's PK-12 MATHEMATICS FRAMEWORK



How **engagement mindsets** of instructional leaders and teachers can foster student talk in math classrooms

> Instructional Leaders' Engagement Mindset

Teachers' Engagement Mindset

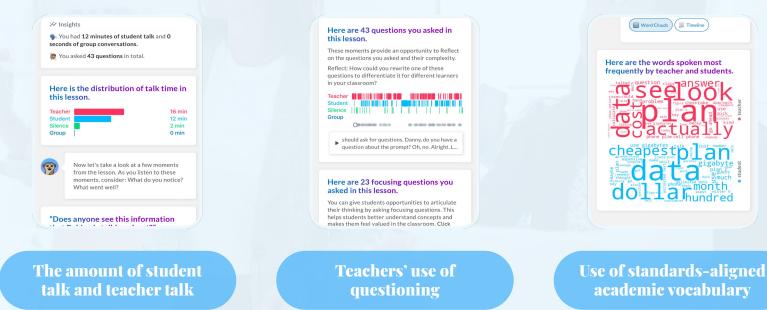




How a focus on leading indicators of learning can help pave the way for *mathing out loud* in every classroom...

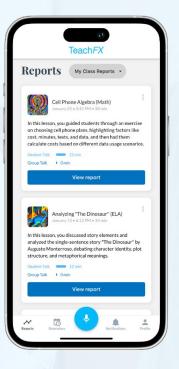


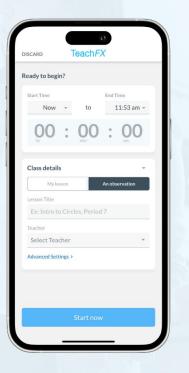
## **TeachFX empowers educators with** data-informed feedback





### Simply press record.

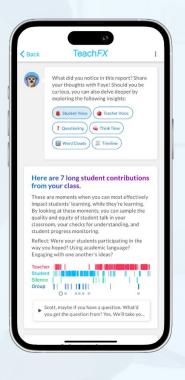




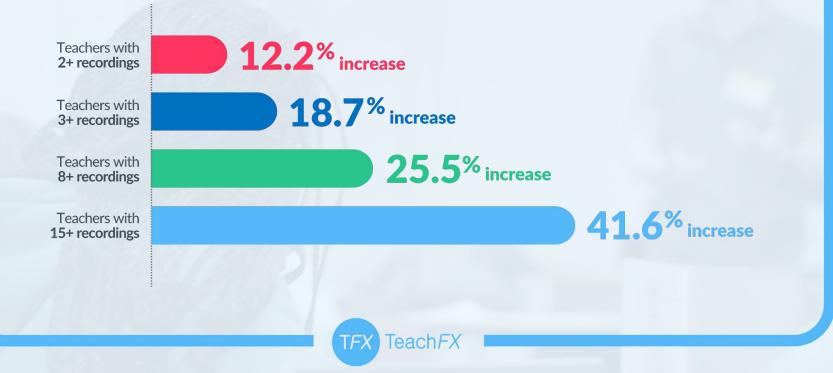
TFX

**Teach**FX





# **Student talk is increasing overall**, with the greatest change observed among the highest usage teachers.



# Alpine teachers increase their use of Wait Time the more they use TeachFX.



increase in using Wait Time 1

pause after a teacher speaks

increase in using Wait Time 2

pause after a student speaks



## **Additional Resources**

**Utah Talent MAP** 

**Utah Mathematics Framework** 

**Inquiry Based Teaching** 

Instructional Approaches: Explicit and Inquiry-Based Instruction

**Evidence Based Practice Menu** 

Article - Utah a 'bright spot' in a gloomy post-COVID national math and reading report card

Article - Are Students Getting All the Math They Need to Succeed?

**Concept-Based Mathematics** 

**Student Questioning Cards** 

**TeachFX - Utah** 

**TeachFX - Research** 

**Secondary Math Professional Learning Opportunities** 

**OER Commons - Mathematics** 

NCTM - Messages from the President

TFX TeachFX