



Carnegie Foundation
for the Advancement of Teaching

Understanding the User Experience: Empathy Tools & Techniques

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SESSION OVERVIEW

Objectives

- Recognize how a user-centered approach helps build empathy for others' experiences
- Appreciate the value of user-centered techniques in improvement efforts
- Practice conducting an “empathy interview”
- Learn how High Tech High utilized empathy interviews in the Mathematical Agency Improvement Community (MAIC)

Norms

- Be present
- Listen to understand
- Defer judgement
- Share the air
- Equity is the center
- Honor confidentiality



WHAT IS A USER-CENTERED APPROACH?



- Explicit understanding of users, their tasks and environments
- Active participation of users
- Iterative process of refinement
- Consideration of the whole user experience
- Multidisciplinary skills and perspectives



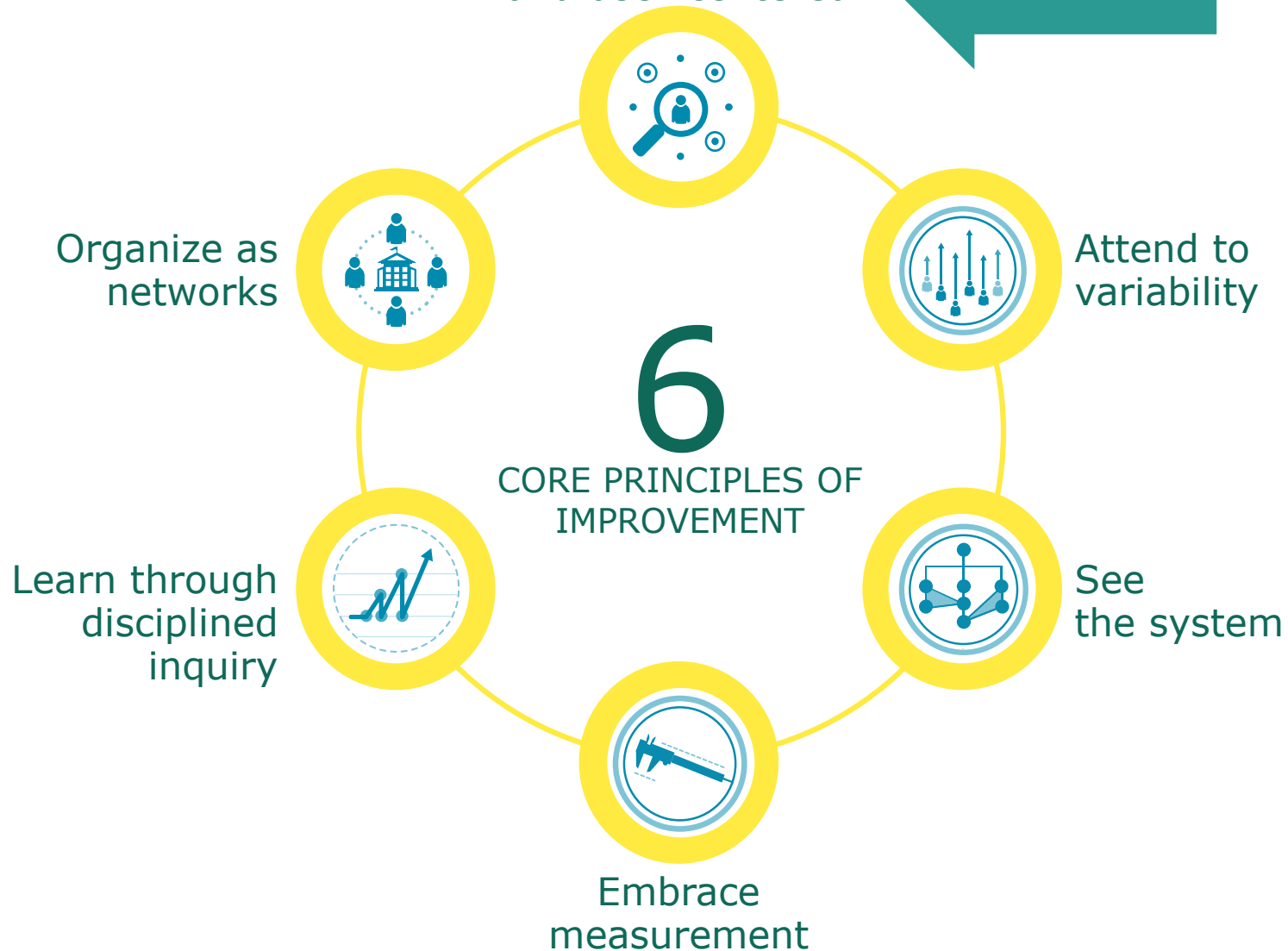
DISCUSS WITH A NEIGHBOR



- How did your definition align with the one given in the video? What was similar? What was different?
- What struck you about this video and why?
- Why would empathy be important in improvement efforts?



Be problem-
focused
and user-centered



Types of Knowledge to Bring to Our Understanding



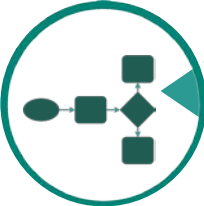
Local Data



Voices of users



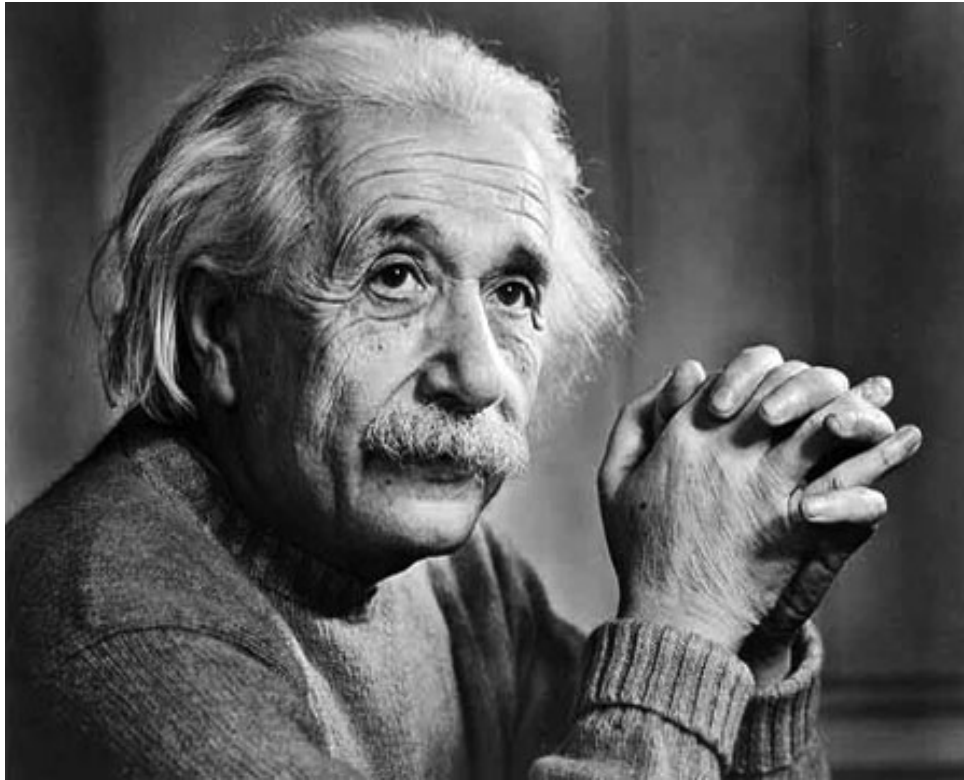
Practical Expertise



How Work Gets Done



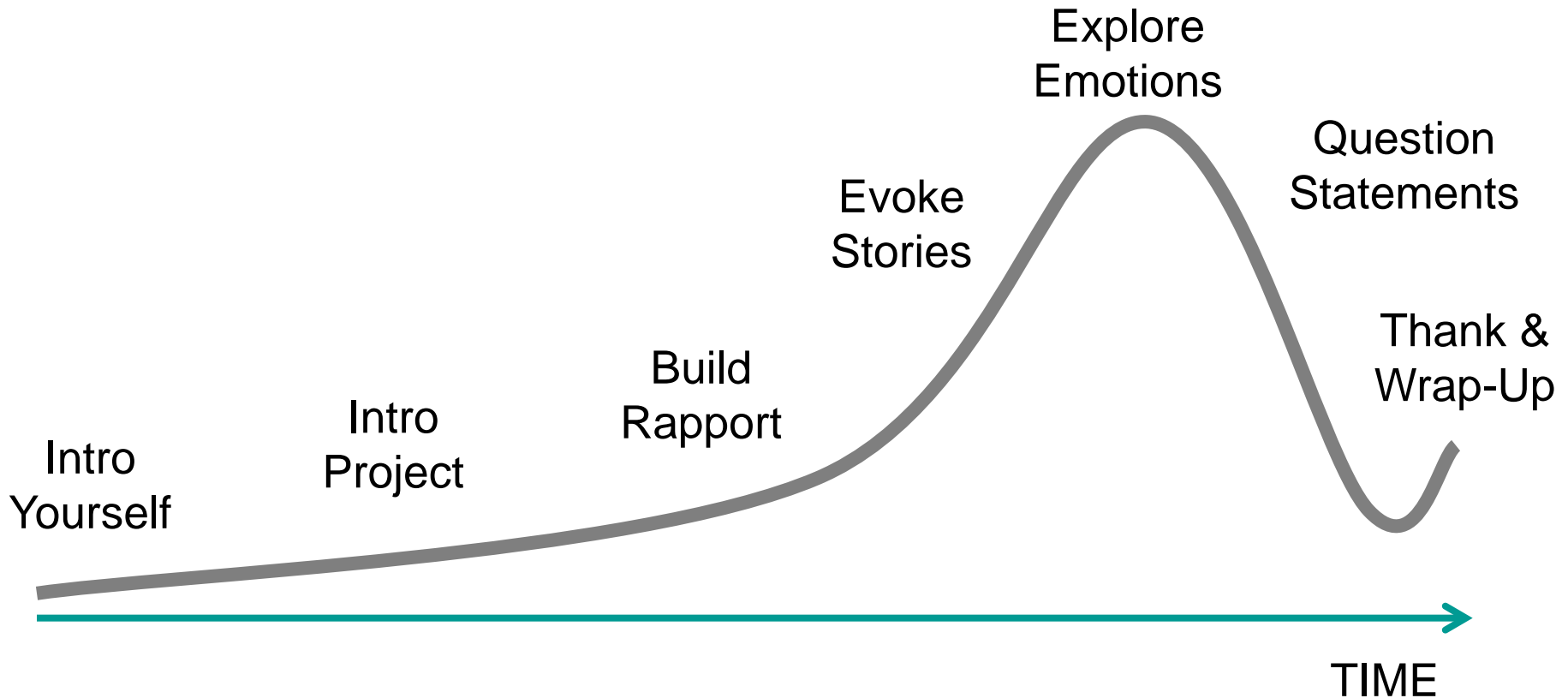
Scholarly Expertise



“If I had an hour to solve a problem, I’d spend 55 minutes thinking about the problem and five minutes thinking about solutions.”

-Albert Einstein

SOME TIPS FOR CONDUCTING AN EMPATHY INTERVIEW



Adapted from Michael Barry

OUR IMPROVEMENT SCENARIO



Purpose: To **understand someone's experience** with math, and the **factors that supported or hindered** their mathematical success.

PREPARE FOR EMPATHY INTERVIEWS

With a partner:

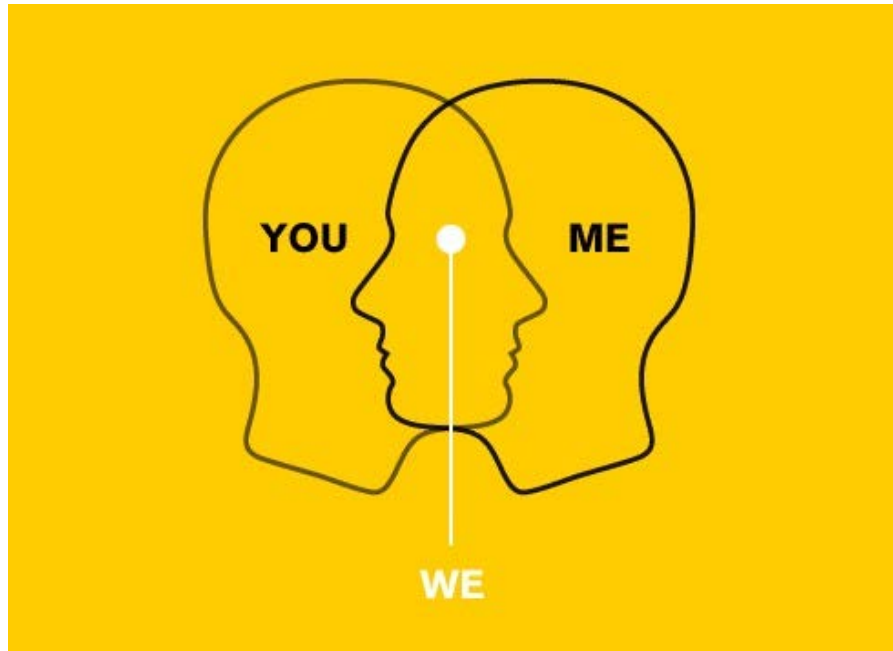


- **Question selection/creation** (5 min)
 - What questions would you like to ask?
- **Organize and predict** (2 min)
 - What order will you ask them?
 - What is one thing you think you will hear?

Each of you will interview someone new!

CONDUCT OUR EMPATHY INTERVIEWS

(8 MIN EACH)



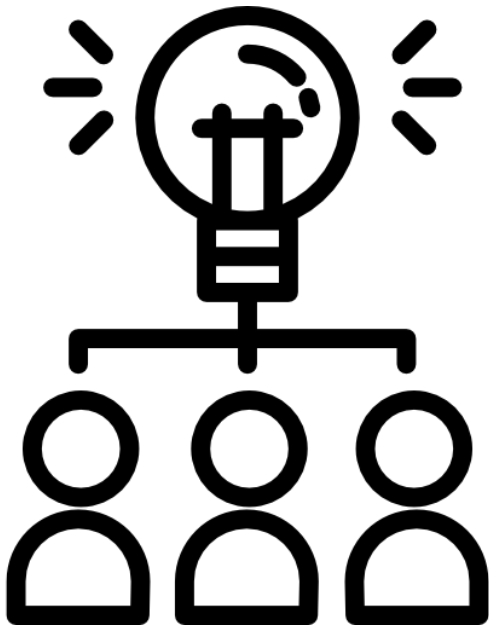
**Pair up with another pair.
Swap partners.**

- Seek to understand, not confirm
- Listen and PROBE
 - “Tell me more...”
 - “What was that like for you?”

DEBRIEF: SHARING ROUNDS

Groups of 4. Designate a facilitator/timekeeper.

New person starts each round. Share the air.



Content (2 min): What *is one thing that struck you* about your partner's math experience?

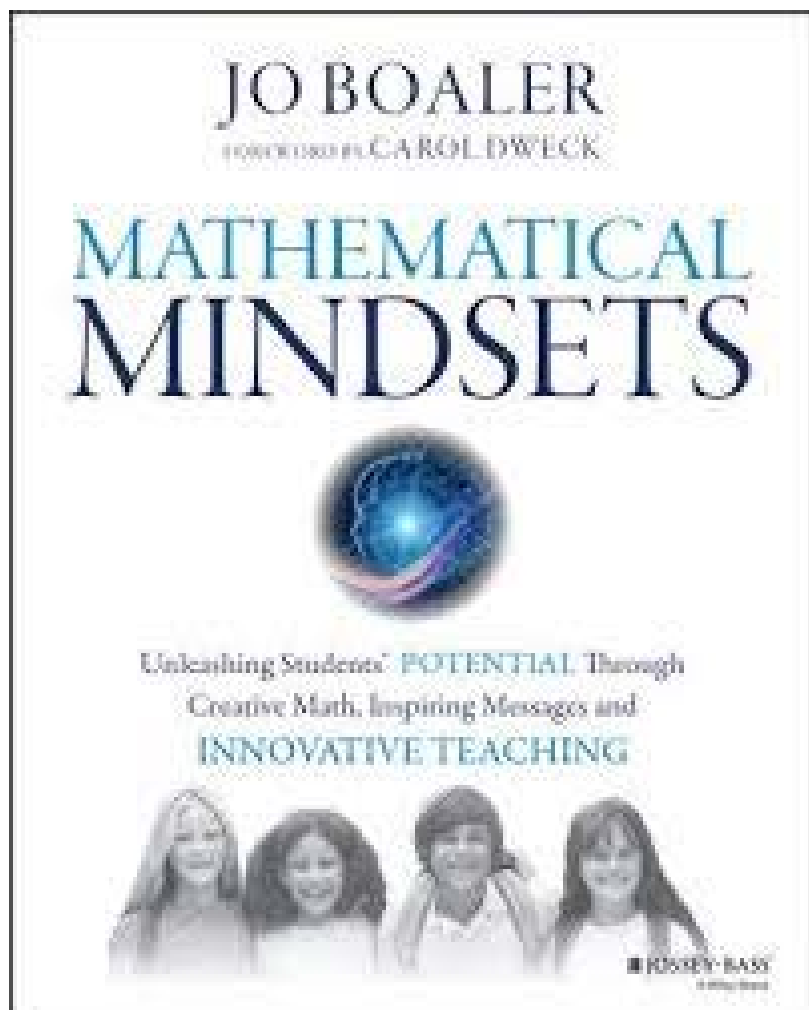
Process (7 min): How did it feel to be the *interviewer*? To be the *interviewee*?

Takeaways (3 min): What is an *idea, question or next step* you are taking with you?



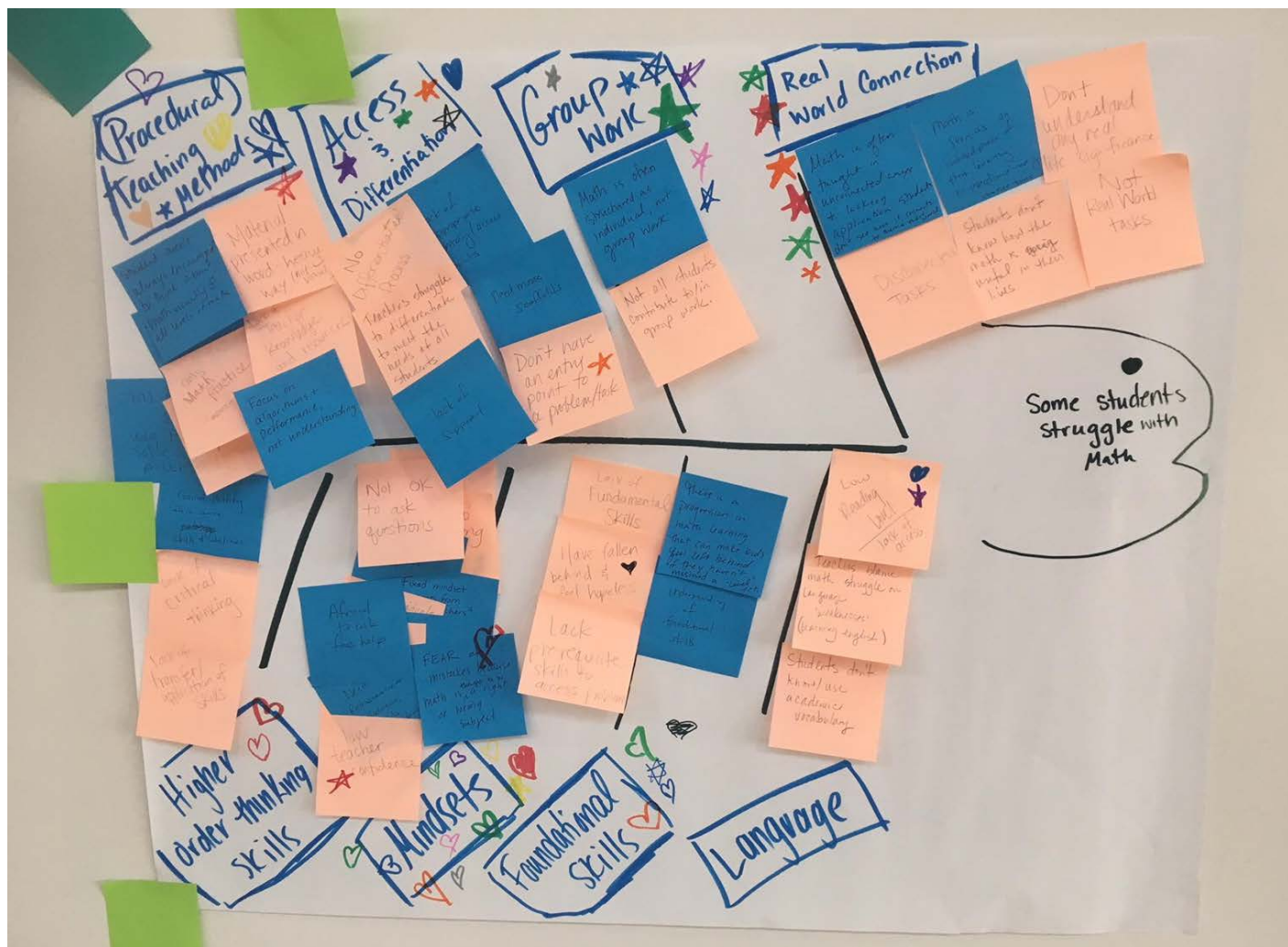
THE NATION'S FIRST GRADUATE SCHOOL OF EDUCATION WHOLLY EMBEDDED IN K-12 SCHOOLS

IMPROVING STUDENTS' MATHEMATICAL AGENCY AND SUCCESS



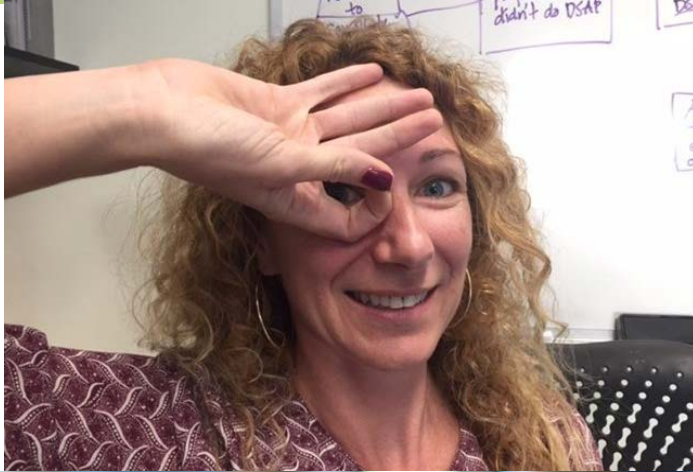
- **Foster growth mindsets**
- **Create inclusive, equitable mathematical learning communities** through productive group work and status interventions
- **Shift mathematical discourse and assessment to be more student-centered**
 - “You, y’all, we” instead of “I do, we do, you do”

HOW DID TEACHERS IN MAIC USE WHAT THEY LEARNED?



EXPLICIT MINDSET/STATUS INTERVENTIONS

A CULTURE OF GRAPPLING & DISCOURSE



Abolishing the phrase
“I’m not a math person.”

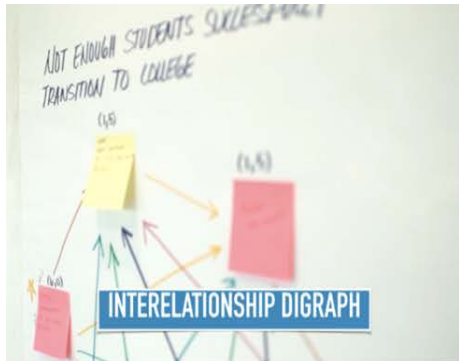
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Questions?

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RESOURCES

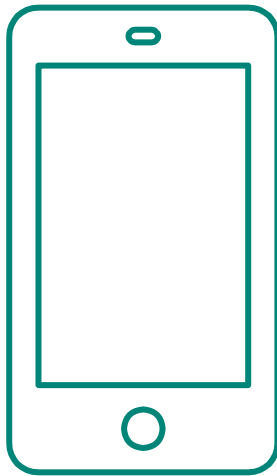


Center for Research on Equity & Innovation (CREI) at the High Tech High Graduate School of Education
Protocols: <https://hthgse.edu/CREI/protocols/>

Hasso Plattner Institute of Design (Stanford's d.school): <https://dschool.stanford.edu/>

JOIN THE CONVERSATION!

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Thank You!

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