7 Practices To Make Your Math Class More Equitable

Webinar Tips

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Close all programs & browsers to maximize bandwidth Exit & re-enter the webinar if you experience an audio or video lag Use the Q&A Icon for technical assistance (and to ask a question!)

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The recording, slide deck & certificate will be sent by email tomorrow

Meet Your Presenter





Dr. Kyndall Brown

Executive Director California Math Project



What You Will Learn

- 7 principles that help disrupt inequitable math teaching practices
- How to recognize stereotypes of diverse mathematics learners
- How to use the ICUCARE equity framework to reduce the effects of negative stereotypes of diverse mathematics learners
- Instructional strategies that help assess, activate, and/or build on students' prior knowledge



Seven Principles of Equity Pedagogy

ICUCARE Framework





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Include others as experts

Create classroom environments that extend beyond the teacher as the sole authority to develop competence and confidence in others as experts, including the students themselves.



Be **<u>C</u>**ritically conscious

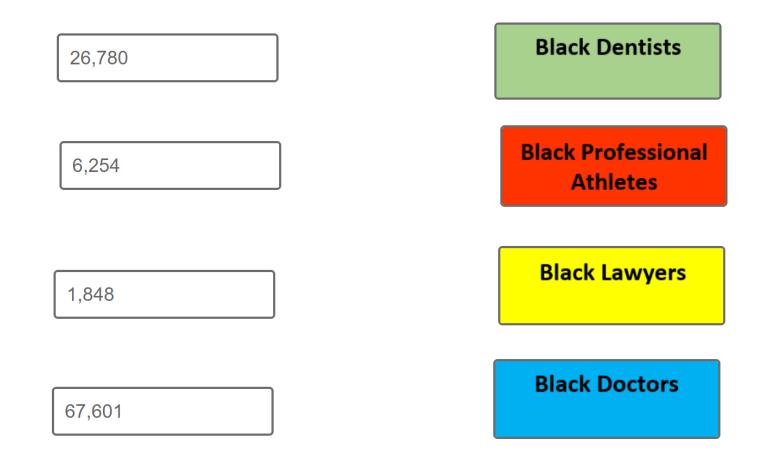
Take the time to understand how negative stereotypes impact your students and actively work to erase the effects of those negative stereotypes on the educational outcomes of marginalized students.





Black Professionals Matching Activity

Match each occupation with the corresponding number of Black professionals in the US.





Black Professional Athletes, Dentists, Doctors, and Lawyers

- There are 1,848 black professional athletes in the U.S.
- There are 6,254 black dentists in the US.
- There are 26,780 black doctors in the US.
- There are 67,601 black lawyers in the US.



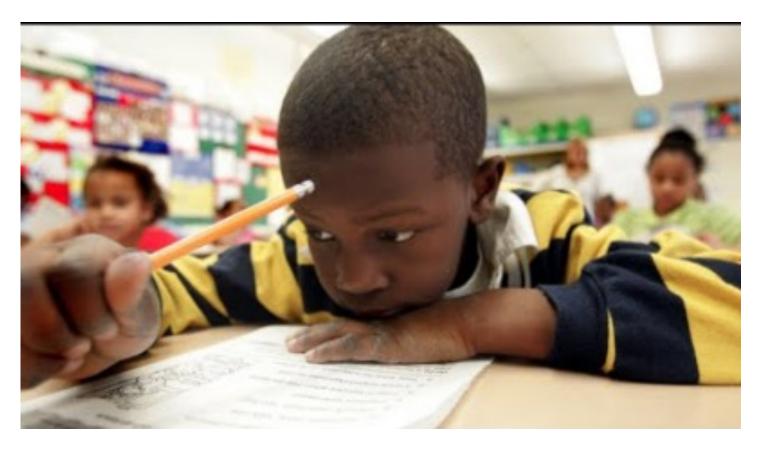
Stereotypes

- Stereotypes are like smog in the air. They are everywhere!
- We all breathe them in, not because we want to, but because it's the only "air" available.
- Even though we didn't create the smog, we must all be responsible for cleaning it up!

Beverly Daniel Tatum, Why are All the Black Kids Sitting Together in the Cafeteria?: and Other Conversations about Race



What is the impact of negative stereotypes?



https://www.youtube.com/watch?v=iOLdxZC3Yp8&t=7s



What is the impact of negative stereotypes?

Negative stereotypes get internalized Limited career options





How can we overcome stereotype threat?

- Improve cross-group
 interactions
- Provide wise feedback
- Create a classroom that fosters a growth mindset





How can we overcome limited career options available to marginalized students?

- Representation matters!
- Diverse role models in a variety of careers, especially STEM
- Diverse teachers and other leaders
- Diverse curriculum materials



THURSDAY, MARCH 25, 2021



We cannot overcome the impacts of negative stereotypes by being "colorblind."





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Understand your students well

Learn about your students, their families and their communities for the purpose of improving instruction.

(Not making assumptions)





Use Culturally Relevant Curricula

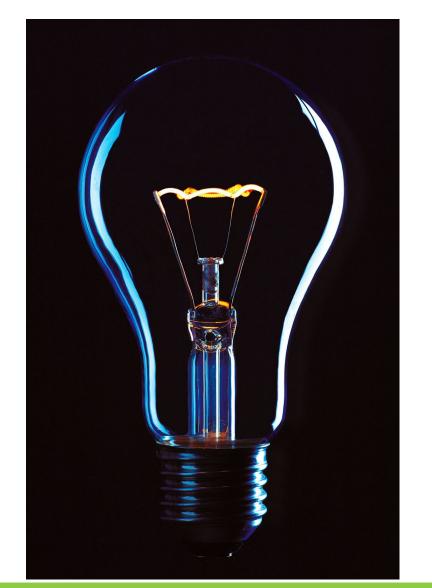
Use instructional materials in ways that help students see themselves as doers of mathematics and help them overcome the negative stereotypes and messages regarding who is mathematically smart.





Assess, activate, and build on prior knowledge

Value the prior knowledge that students bring to the classroom, both personal and cultural, and leverage that knowledge as a resource for creating new knowledge.





Assess, activate, and build on prior knowledge Low Floor-High Ceiling Tasks

- Cognitively Demanding
- Multiple entry points
- Multiple solution strategies

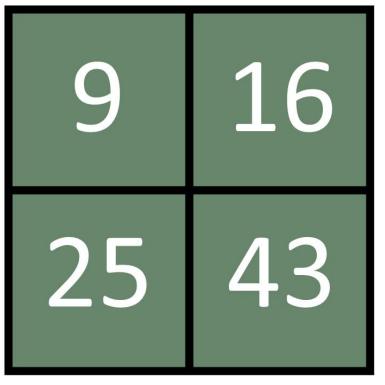


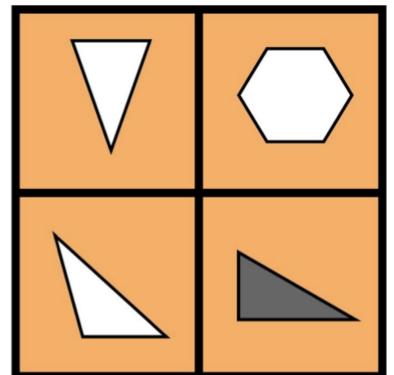


Assess, activate, and build on prior knowledge

Low Floor-High Ceiling Tasks

Which One Doesn't Belong?





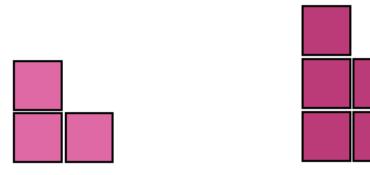


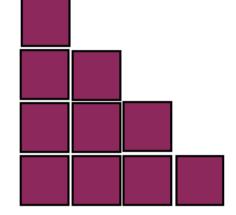
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Assess, activate, and build on prior knowledge Low Floor-High Ceiling Tasks

Growth Pattern Tasks

How many tiles are in the next shape?





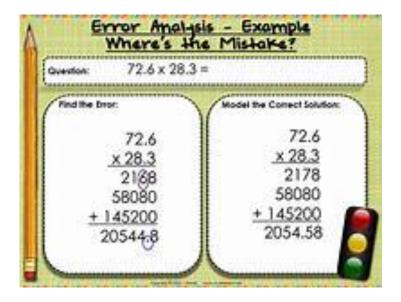


Formative Assessment

White Boards



Error Analysis-Where's the Error?





70

64 49 38

13 26 77 EXIT

Piot 45 on the number line

111 | 110

529 231 EXIT TICKET

Empathy Interviews

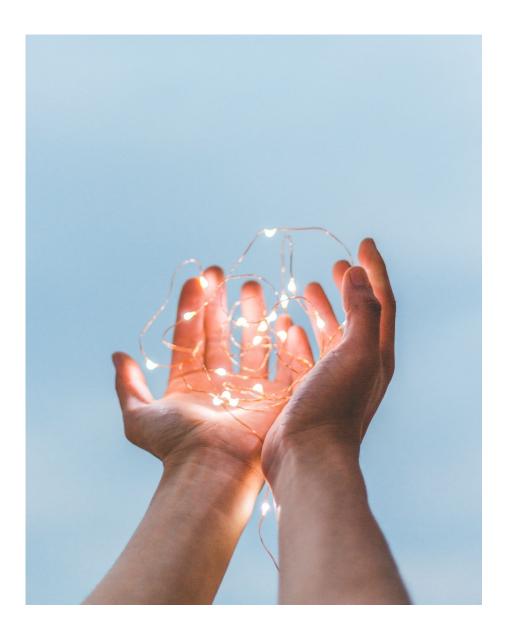
- Focus on student strengths
- Inquire about outside of school activities





Release Control

Empower your students to take ownership of their learning by focusing on sensemaking and allow them to make choices about things that are important to them in the classroom.







Hold high expectations for all students, and avoid <u>deficit</u> views of diverse learners.





Call to Action

- What are some specific actions steps you can take this week to implement something you learned from today's session?
- What person you will ask to hold you accountable for completing these action steps?







Deepen Your Knowledge of Evidence-Based Instructional Practices for Teaching Fractions

- Two online courses:
 - Fraction Meaning, Equivalence, Addition, and Subtraction
 - Multiplication and Division with Fractions
- Complete highly engaging modules on your own time during the course dates
- 16 hours of professional learning credit; Optional grad credit

www.corelearn.com/online-math-academy



What questions do you have?



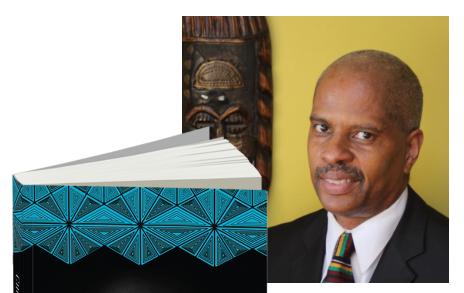


Thank You!

Get in touch:

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www.cmpso.org



CHOOSING TO SEE

A FRAMEWORK FOR EQUITY IN THE MATH CLASSROOM





Questions?



Get in Touch with CORE!

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