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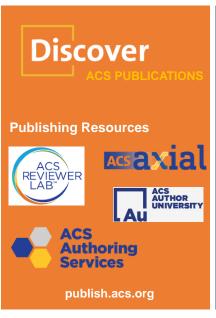
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# **ACS Career Navigator: Your Home for Career Services**



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We have a collection of career resources to support you during this global pandemic:



Professional Education



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Virtual Classrooms

Visit <u>www.ACS.org/COVID19-Network</u> to learn more!

# **ACS Department of Diversity Programs**



Advancing ACS's Core Value of Diversity, Inclusion & Respect

We believe in the strength of diversity in all its forms, because inclusion of and respect for diverse people, experiences, and ideas lead to superior solutions to world challenges and advances chemistry as a global, multidisciplinary science.

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ACS Scholars Endowment Founder Joe Vacca, retired Vice President of Chemistry, Merck & Co., meets with his 2018 ACS Scholar Johanna Masterson, now a grad student at Princeton University.

"Chemistry has been good to me...so I wanted to make a significant gift to provide that opportunity to others."





Date: Wednesday, February 3, 2021 @ 2-3pm ET Speaker: Brian Gibney, Brooklyn College and CUNY Moderator: Blake Aronson, American Chemical Society

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# What You Will Learn:

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# **DISCOVER QUALITY TEACHING RESOURCES**



The American Association of Chemistry Teachers offers an online growing teaching resource library, including lesson plans, labs, demos, simulations, animations, student passes, videos, and more for grades K–12.

https://teachchemistry.org

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# **Diversity, Inclusion, and Respect Advisory Board** (DI&R AB)





ACS Executive Leadership Team, Board of Directors, and DI&R AB Members

- Supports the ACS Board of Directors and Committee on Professional and Member Relations (P&MR) in implementing the Society's core value of Diversity, Inclusion, and Respect
- Involved in both strategy recommendations and tactical execution, with the goal of seeing holistic engagement towards a more inclusive Society and scientific community
- Central hub for ACS members and governance units working together to build a culture of inclusion within ACS



THIS ACS WEBINAR WILL BEGIN SHORTLY...





"I Can Be a Scientist, Too!" How to Create Opportunity in the STEM Classroom



Nelson Fuamenya y Teacher, Wakefield High School



Ana Munoz Immersion Biology and Chemistry Teacher, Wakefield High School









Peter Dorhout
Past ACS President and Vice President for Research,
Professor of Chemistry, Iowa State University



Verlese Gaither
Teacher, Wakefield High School



Arron Gregory
Chief Diversity, Equity and Inclusion Officer,
Arlington Public Schools

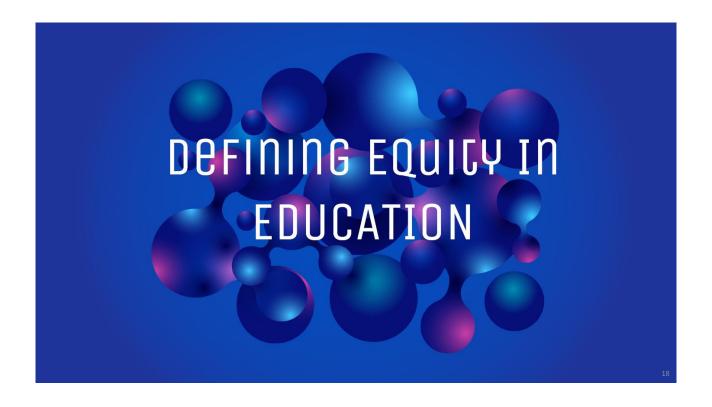
Presentation slides are available now! The edited recording will be made available as soon as possible. www.acs.org/acswebinars

This ACS Webinar is co-produced with American Association of Chemistry Teachers, ACS Department of Diversity Programs, and the ACS Diversity, Inclusion & Respect Advisory Board. 14





# AUDIENCE SURVEY QUESCION 1: TEMPERATURE CHECK How often do you engage in implementing equitable practices in your classroom? Daily Weekly Monthly Never, but Interested



# EDUCACIONAL EQUICY

Educational equity means establishing systems to ensure that every child has an equal chance for success. This requires understanding the unique challenges and barriers individual students or student populations face and providing additional supports to help them overcome those barriers.

While it may not ensure equal *outcomes*, such effort provides the conditions for equal *opportunity* for success.\*

Thinking Maps: Equity in Education
https://www.thinkingmaps.com/equity-education-matters/

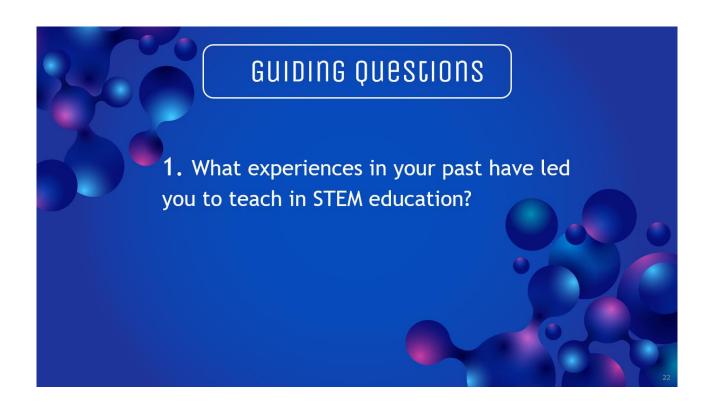
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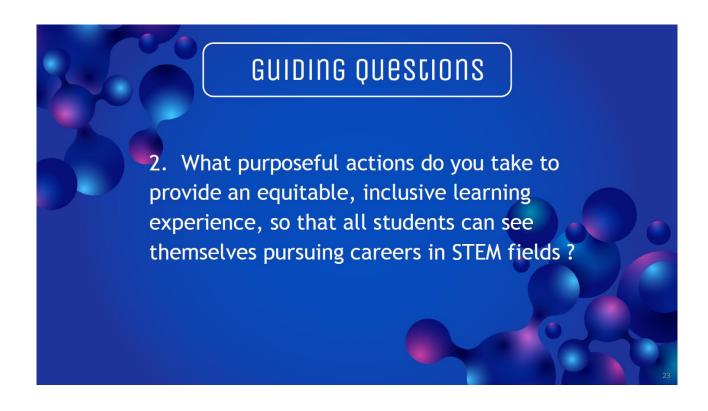
# EQUITY IN SCIENCE EDUCACION

"Equity in science education requires that all students are provided with equitable opportunities to learn science and become engaged in science and engineering practices............. In addition, the issue of connecting to students' interests and experiences is particularly important for broadening participation in science." — NRC Framework, p. 28

A Framework for K-12 Science Education
Practices, Crosscutting Concepts, and Core Ideas (2012)





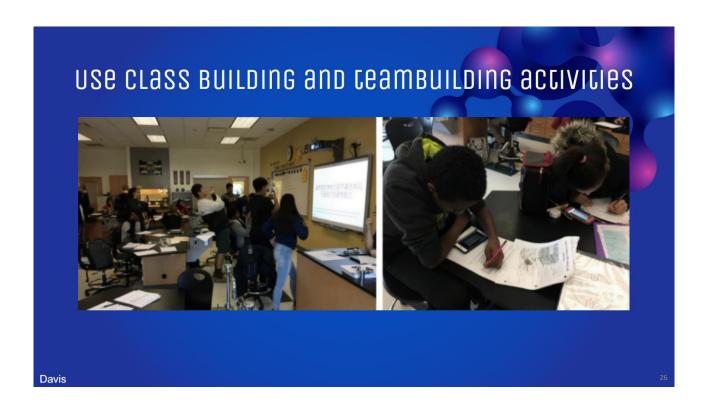


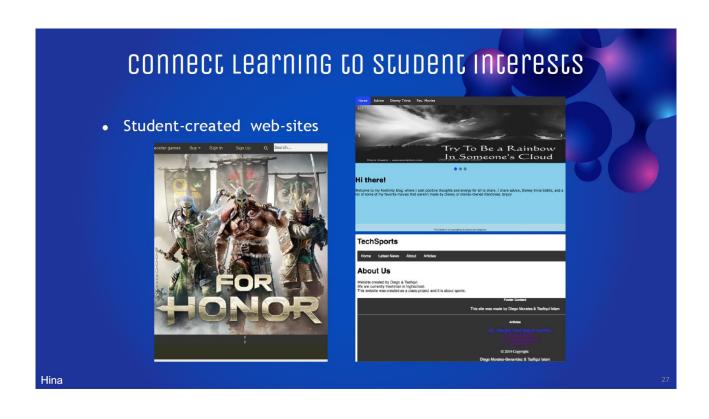
# ESCABLISH AN EQUICABLE CLASSIOOM

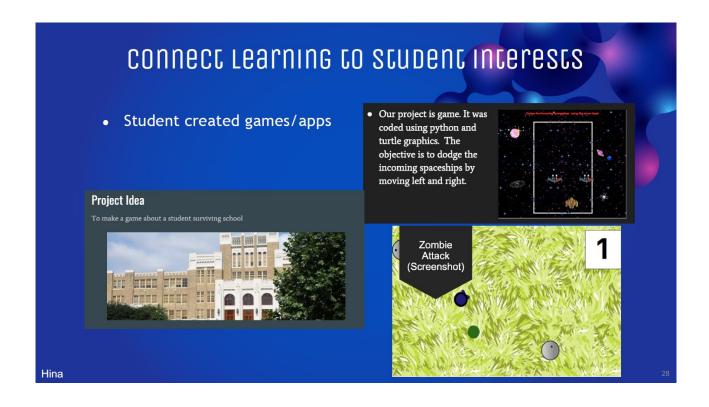
- Develop Classroom Norms (with students)
- Have high academic and behavioral expectations of all students
- Reflect on personal beliefs /experiences to increase awareness to gender, racial, religious, and other forms of diversity.
- Be sensitive to and flexible about the ways diverse students think, behave, and communicate.
- Believe that all students can be successful

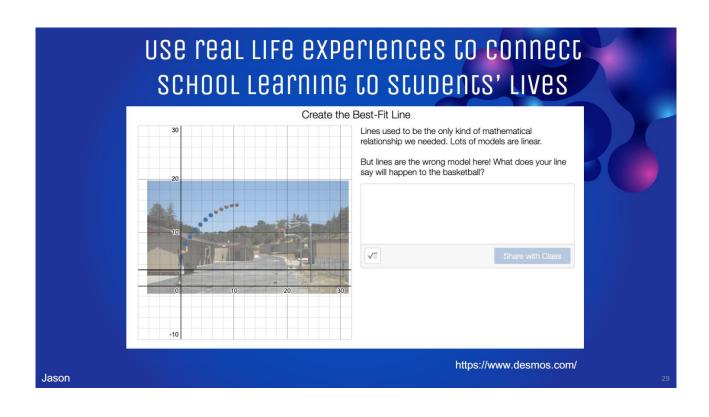
Nelson

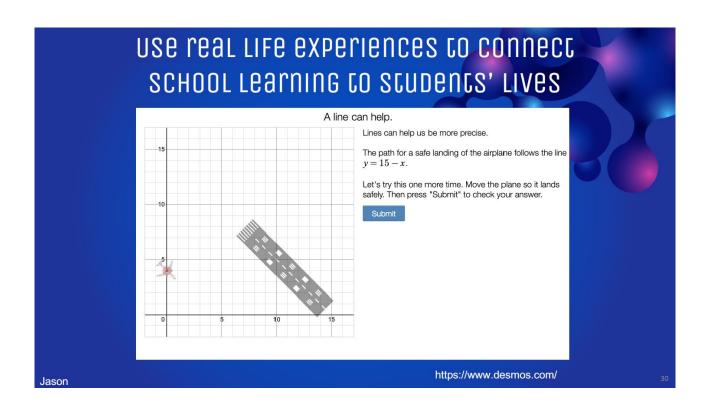












# AUDIENCE SURVEY QUESTION 2:

What do you think is the biggest challenge to implementing equitable practices in the STEM classroom?

- Time
- Lack of Knowledge/Training
- Teacher Expectations
- Stereotypes/Implicit Bias
- Systemic Constraints

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# 3. In your work with students' what aspect(s) of equity and inclusivity do you see as the biggest challenge?

# AUDIENCE SURVEY QUESTION 3:

Which of the following Equitable Classroom practices will you intentionally commit to focus on? Please select all that apply.

- a) Use class building and teambuilding activities
- b) Use real-life experiences to connect learning to students' lives
- Use instructional materials that reflect students' backgrounds and interests
- d) Use heterogeneous and cooperative learning groups
- e) Ask for students' feedback on the effectiveness of instruction

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# THE FOUR DIMENSIONS OF CEACHING AND LEARNING - relevant to addressing equity in the classroom

# students

Know your students understand the ways that students from various social and cultural backgrounds experience the classroom

# course content

Create a curriculum that incorporates diverse social and cultural perspectives



# TEACHER

Know oneself with a prior history of academic socialization interacting with a social and cultural background and learned beliefs

# Teaching Methods

Use a repertoire of teaching methods to address learning ... of students from different social backgrounds more effectively

Marchesani, L.S., & Adams, M. (1992). Dynamics of diversity in the teaching and learning process: A faculty development model for analysis and action. *New Directions for Teaching and Learning*, 52: 9-12

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# THANKYOU TO THE FOLLOWING CONSULTANTS/CONTRIBUTORS

- Mr. Adam Boyd Program Manager | American Association of Chemistry Teachers (AACT)
- Benjamin Fiore Walker Ph. D Manager | Department of Diversity Programs -American Chemical Society (ACS)
- Arron Gregory J. D Chief Diversity, Equity and Inclusion Officer | Arlington Public Schools (APS)
- Erik Holderman Producer and Program Manager | ACS Webinars® / ACS
   "Program-in-a-Box"™
- Natalie LaFranzo, Ph. D Chair Diversity, Inclusion & Respect Advisory Board | ACS
- Ms. Michele Lombard Science Specialist | APS
- Shantha Smith Ph. D Equity and Excellence Coordinator | APS

RESOURCES

- https://www.iamascientist.info/
- https://www.nationalequityproject.org/
- https://greatlakesequity.org/sites/default/files/201001011005\_equity\_tool.pdf
- https://greatlakesequity.org/sites/default/files/201501011126\_equity\_tool.pdf
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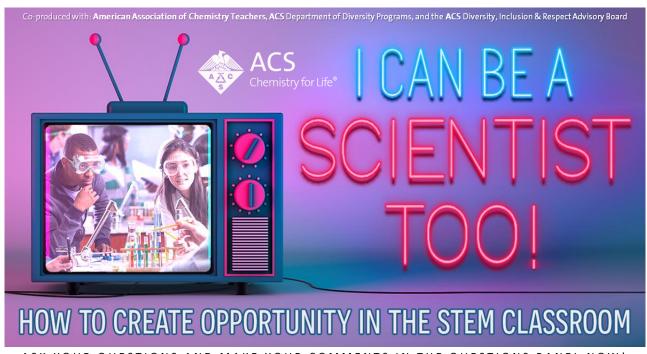
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ASK YOUR QUESTIONS AND MAKE YOUR COMMENTS IN THE QUESTIONS PANEL NOW! 39



https://teachchemistry.org







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