

Resources from Racial Justice in STEM Education Roundtable | June 17, 3-3:30pm ET

Facilitators

- Kari Kokka (University of Pittsburgh) kokka@pitt.edu @karikokka
- ReAnna S. Roby (Vanderbilt University) reanna.roby@vanderbilt.edu @DrRSRoby

Publications

- Cedillo, S. (2018). Beyond inquiry: Towards the specificity of anti-blackness studies in STEM education. *Canadian Journal of Science, Mathematics and Technology Education*, 18(3), 242-256.
- Gutiérrez, R. (2013). The sociopolitical turn in mathematics education. *Journal for Research in Mathematics Education*, 44(1), 37-68.
- Holly, Jr., J. (2020). Disentangling engineering education research's anti-Blackness. *Journal of Engineering Education*, 106, 629-635.
- Leonardo, Z., & Porter, R. K. (2010). Pedagogy of fear: Toward a Fanonian theory of 'safety' in race dialogue. *Race Ethnicity and Education*, 13(2), 139-157.
- Martin, D. B. (2007). Beyond missionaries or cannibals: Who should teach mathematics to African American children?. *The High School Journal*, 91(1), 6-28.
- McGee, E. O. (2021). *Black, brown, bruised: How racialized STEM education stifles innovation*. Harvard Education Press.
- Mensah, F.M., & Jackson, I. (2018). Whiteness as property in science teacher education. *Teachers College Record*, 120(1), 1-38.
- Ortiz, N., Morton, T., Roby, R.S., and Ridgeway, M. (2019) What About Us: Exploring the Challenges and Sources of Support Influencing Black Students' STEM Identity Development in Postsecondary Education. *Journal of Negro Education*.
- Prescod-Weinstein, C. (2021). Dark Matter in the Disordered Cosmos. *Bulletin of the American Physical Society*.
- Roby, R.S. and Calabrese Barton, A. (2019). Historical Exclusion as an Onus for Inclusion and Home in STEM. (Eds.). *Essays on Exclusion in STEM*.
- Wright, C.G., & Riley, A. (2021). Mitigating the need for resiliency for Black girls: Reimagining cultural brokering through a lens of science as white property. *Cultural Studies of Science Education*.

Sample Social Justice Mathematics and Science Curricular Resources for K-12 Teachers

A full list of resources is available here: <https://bit.ly/SJMathScienceResources>

[Click on the link to see the full and most updated list. I regularly update the Google Doc. Feel free to send me suggestions to add. Thank you, Kari]

- A Pathway to Equitable Math Instruction | Dismantling Racism in Mathematics Instruction | Exercises for educators to reflect on their own biases to transform instructional practice <https://equitablemath.org/>
- Antiracist Mathematics Education Resource List https://docs.google.com/document/d/1vD3p3oX8xsq9ShrjflbyFoZkEUUlc_WxutFINEgHK8/edit?usp=sharing <http://bit.ly/antiracistmath>

- Access, Agency, and Allies in Mathematical Systems Antiracist Tool <https://sites.google.com/go.olemiss.edu/a3ims/antiracist-tool>
- Ethnomathematics Lessons <https://sites.google.com/site/ethnomathematics/lesson-plans>
- Data for Black Lives <http://d4bl.org/>
- Math and Social Justice: A Collaborative MTBoS Site <https://sites.google.com/site/mathandsocialjustice/curriculum-resources>
- Syllabus: A History of Anti-Black Racism in Medicine <https://www.aaihs.org/syllabus-a-history-of-anti-black-racism-in-medicine/?fbclid=IwAR3n5a23qey5e38wCqfHjkXQ8PNqcl7bXyGuNaAXn5uKQLjJGeHRFDhixVQ>
- Nepantla Teachers Community Cohorts <https://nepantlateachers.wixsite.com/website/2020-summer-cohort>
- Black Lives Matter at School <https://blacklivesmatteratschool.com/>
- Creating Balance in an Unjust World Conference on STEAMM Education and Social Justice curricular resources <http://www.creatingbalanceconference.org/resources/>
- UCLA Ethnic Studies Teacher Resources <http://www.teachethnicsudies.org/>
- So You're Thinking About Becoming an Abolitionist by Miriam Kaba <https://level.medium.com/so-youre-thinking-about-becoming-an-abolitionist-a436f8e31894>
- Abolitionist Teaching Network <https://abolitionistteachingnetwork.org/>
- If You're New to Abolition: Study Group Guide <https://abolitionjournal.org/studyguide>
- Becoming an anti-racist educator Wheaton College <https://wheatoncollege.edu/academics/special-projects-initiatives/center-for-collaborative-teaching-and-learning/anti-racist-educator/>
- Racial Equity Tools <https://www.raciaequitytools.org/home>
- Dismantling Racism Works <https://www.dismantlingracism.org/>
- Being Antiracist Smithsonian <https://nmaahc.si.edu/learn/talking-about-race/topics/being-antiracist>
- Pledge to Act <https://www.pledgetoact.org/>
- A Guide to Equity and Antiracism for Educators by Hedreich Nichols Edutopia <https://www.edutopia.org/article/guide-equity-and-antiracism-educators>

Articles/Videos

- [Six reasons why I want my white child to take ethnic studies by Jon Greenberg](#)
- [Dr. Ibram Kendi on Democracy Now](#) standardized testing and the [eugenics movement](#)
- [Eugenics movement](#)
- [Race the Power of an Illusion](#)
- [Pushout: The Criminalization of Black Girls in School](#) by Dr. Monique Morris
- [Silenced Dialogue: Power and Pedagogy in Educating Other People's Children](#) by Dr. Lisa Delpit
- [Future of Healing](#) by Dr. Shawn Ginwright
- [13th](#) by Ava DeVurney
- [The New Jim Crow](#) by Michelle Alexander
- [James Baldwin A Talk to Teachers](#)
- [Subversive Teaching to Rehumanize Mathematics](#) by Dr. Rochelle Gutierrez

Books

[Rehumanizing mathematics for Black, Indigenous, and Latinx students edited by Drs. Imani Goffney, Rochelle Gutiérrez](#)

A People's Curriculum for the Earth: Teaching Climate Change and the Environmental Crisis

<https://www.rethinkingschools.org/books/title/a-people-s-curriculum-for-the-earth>

Teaching for Black Lives <https://www.rethinkingschools.org/books/title/teaching-for-black-lives>

Rethinking Mathematics

<https://www.rethinkingschools.org/books/title/rethinking-mathematics-second-edition>

High School Mathematics and Science Lessons to Explore, Understand, and Respond to Social Injustice by Drs. Robert Q. Berry III, Basil M. Conway IV, Brian R. Lawler and John W. Staley

<https://resources.corwin.com/TMSJ-highschool>

Radical Equations by Bob Moses and Charles Cobb

<https://www.penguinrandomhouse.com/books/206027/radical-equations-by-robert-p-moses/9780807031278/>

Impact of Identity in K-8 Mathematics: Rethinking Equity Based Practices by Drs. Julia Aguirre, Karen Mayfield-Ingram, and Danny Martin

<https://www.nctm.org/Store/Products/The-Impact-of-Identity-in-K-8-Mathematics--Rethinking--Equity-Based-Practices/>

Science in the City by Dr. Bryan Brown <https://scienceinthecity.stanford.edu/>

Rethinking Ethnic Studies <https://www.rethinkingschools.org/books/title/rethinking-ethnic-studies>

Race After Technology Abolitionist Tools for The New Jim Code by Dr. Ruha Benjamin

<https://www.ruhabenjamin.com/race-after-technology>

Captivating Technology Race, Carceral Technoscience, and Liberatory Imagination in Everyday Life edited by Dr. Ruha Benjamin <https://www.dukeupress.edu/captivating-technology>

Peoples Science by Dr. Ruha Benjamin <https://www.ruhabenjamin.com/peoples-science>

[Teaching Mathematics for Social Justice Conversations with Educators Edited by Drs. Anita A. Wager and David W. Stinson](#)

Racial Equity and Justice in Teaching and Teacher Education: Progress, Tensions, and Open Questions, Nirali Shah

<https://www.spencer.org/learning/racial-equity-and-justice-in-teaching-and-teacher-education-progress-tensions-and-open-questions>

We Want To Do More Than Survive by Dr. Bettina Love <https://bettinalove.com/>