CoderZ
Power Up Your Future

Critical Components of Establishing a Foundation for Equity-Focused Teaching Resource Guide

Use the following resources to strengthen student comprehension of the text and to expand on their knowledge of the topic:

Relevant Research and Resources	
Researchers	Tia C. Madkins, Ph.D. is an assistant professor in STEM Education and Department of Curriculum and Instruction in the College of Education and a faculty research affiliate with the Population Research Center and the Center for the Study of Race and Democracy at The University of Texas at Austin. Her research focuses on supporting teachers to design inclusive STEAM + computing classrooms and engage equity-focused pedagogies with minoritized students, especially Black girls.
	Nicol R. Howard, Ph.D. is an assistant professor and co-director of the Race in Education Analytics Learning Lab, REAL Lab, in the School of Education at the University of Redlands where her research foci are STEM and computer science equity and parent involvement. Dr Howard's concern for equity in education has led to publications such as Terms of engagement: Redefining parental involvement and STEM Identity for Black girls and a recent co-authored book entitled Coding+Math: Strengthen K-5 Math Skills with Computer Science.
	As Director of Equity and Strategic Engagement for the Bellevue School District, Shomari Jones, is charged with leading staff in thoughtful exploration of institutionalized racism and its impact on student learning. Through providing professional learning experiences and strategic support, educators in Bellevue develop the will, skill, knowledge, and capacity to eliminate racial disparities and achieve system-wide equity and excellence for kids and their families.

Resources	Howard (2019): Ed Tech Leaders' Beliefs:
	https://link.springer.com/article/10.1007/s10758-018-9371-2
	Coding + Math: Strategies for K-5 by N. R. Howard and K. E.Howard (2020) https://www.k12stemequity.com/
	Madkins Howard & Freed (2020): Open access article available at: https://inspire.redlands.edu/jcsi/vol3/iss2/1/
	Madkins et al. 2019 (https://ieeexplore.ieee.org/abstract/document/8985773)
	Madkins et al. 2020 (CS in K-12: An A to Z Handbook on Teaching Programming)
	Resources for understanding structural racism (Comprehensive List Curated by Tia C. Madkins, Ph.D.)
	Toolkit for making connections between secondary CS content and social justice issues
	AI, Ain't I a Woman? By Joy Buolamwini
	Computer Science Teacher Association (CSTA) Equity Fellowship
	CSforAll: Equity CS District Learning Cohort
	Design to Disrupt: Making Space for Every Student in CS by Dr. Nicki Washington
	For US-based educators, consider having secondary students in targeted areas apply for the SMASH Academy or other SMASH Programs sponsored by the Kapor Center
	Race to Technology: Abolitionist Tools for the New Jim Code by Dr. Ruha Benjamin
	We Are Data by Dr. John Cheney-Lippold