

For Students: STEM Activities and Inspiration by and about BIPOC Scientists and Engineers (BIPOC: Black, Indigenous, People of Color)

<p>Video Shows of science activities</p> <ul style="list-style-type: none"> • The Fab Lab with Crazy Aunt Lindsey “Educational videos and DIY science projects for kids.” • Hip Hop Science Show. Black scientist bridges “the gap between music/ entertainment and science by introducing scientific elements to everyday pop culture. • Molly of Denali (PBS Kids videos, game, activities, podcast) 	<p>Night Sky activities</p> <ul style="list-style-type: none"> • Neil deGrasse Tyson shows and interviews include StarTalk (YouTube and free podcast), The Universe (free), COSMOS, NOVA Science NOW, The Inexplicable Universe: Unsolved Mysteries • Blackfoot and Crow Star Stories (lesson plan and videos) • How did Polynesian Wayfinders Navigate the Pacific? More at Hokulea. (TEDEd video lesson) • Navajo: Story of the Stars (video, 13:29 min) • Relearning the Star Stories of Indigenous Peoples. Audio interviews: “Ways of Knowing, Written in the Stars.” Elder story: The Story of Grandmother Spider and Star Woman. (PBS Science Friday)
<p>Kitchen Science activities</p> <ul style="list-style-type: none"> • The BOW Girls (videos) Two young Black girls teach cooking and other activities. • Interview: Kids Around the World Photographed Surrounded by their Weekly Diet. Photo essay of children with their cultural foods. 	<p>Climate Change Action activities</p> <ul style="list-style-type: none"> • 12 Female Activists Who are Saving the Planet. (short biographies with videos) • Let’s Talk Science: Indigenous Perspectives on Climate. (Teacher’s guide) • What Indigenous Communities are Teaching the Rest of Us about Climate Change. (PBS video) • What does Climate Change Mean to Children From Around the World? (video)
<p>Coding activities</p> <ul style="list-style-type: none"> • Black Girls Code “Devoted to showing the world that black girls can code, and do so much more.” • Code.org “Dedicated to expanding access to computer science in schools and increasing participation by women and underrepresented.” 	<p>Weather and Clouds activities</p> <ul style="list-style-type: none"> • Indigenous Knowledge and Cultural Weather Perspectives (Saskatchewan) • Weather vs Climate Change: Cosmos: A Spacetime Odyssey (Neil deGrasse Tyson)
<p>Wonders of Water activities</p> <ul style="list-style-type: none"> • Water the give of Life: Investigating Environmental Impacts (Ontario Aboriginal perspectives on nature) 	<p>Exploring Nature activities</p> <ul style="list-style-type: none"> • Culture Shapes How Children View the Natural World (article) • The Land You Live On (Education Guide by Native Land). Interactive map of Native Land

Website Collections of Lesson Plans and Teaching Resources (STEAM, environmental and social justice, and other content areas)

- [Courageous Conversations](#). a protocol for having difficult conversations about race in our lives and institutions.
- [EmbraceRace.org](#) “Let’s Raise a Generation of Children Who Are Thoughtful, Informed, and Brave About Race.”
- [Everyday Native](#). A teacher resource (Grades 4-12) for non-Natives and Native Americans.
- [Infusing Indigenous perspectives into K-12 teaching \(U. of Toronto\)](#) . Lessons and resources that focus on First Nations, Métis, and Inuit worldviews, experiences and knowledges for teaching in the K-12 classroom.
- [National Underground Railroad Freedom Center](#) Lessons and resources of “freedom’s heroes, from the era of the Underground Railroad to contemporary times, challenging and inspiring everyone to take courageous steps of freedom today.”
- [Rethinking Columbus: The Next 500 Years](#) Teaching guide of history the Indigenous experience.
- [Rethinking Schools](#). Lessons for all grade levels and subjects.
- [Teaching Tolerance](#). Classroom resources.
- [Zinn Education Project: Teaching People’s History](#). Lessons for all grade levels and subjects.

Identity & Diversity Inspiration in STEM

- [10 LGBT Scientists Who Made History to Celebrate LGBT-STEM Day](#) (Pink News)
- [10 Game-Changing Hispanic Scientists You Did Not Learn About in School](#) (Mental Floss)
- [17 Notable Latinos Pushing Science Forward Today](#) (MITU)
- [19 Black Scientists and Engineers to Learn More About](#) (Science Buddies)
- [500 Queer Scientists](#) (500QS) “An organization with a goal to ensure the next STEM generation has LGBTQ+ role models.”
- [Just 18 Awesome Native Folks in STEM](#). (Medium: Women of Silicon Valley)
- [Native American Scientists and Inventors](#). (imDiversity)