Education Resources for STEM Educators

Smithsonian Ational Museum of African American History and Culture

Christopher Williams PhD NMAAHC STEM Education Specialist February 10, 2021





Learning Goals



Programs



Digital Lessons



NMAAHC's Collections



Get to know NMAAHC's STEM Educator



Frostburg State University



Georgetown University



National Institutes of Health



AAAS ST&P Fellow at the NSF



National Museum of African American History and Culture



Changing the narrative about STEM

Vision of STEM at NMAAHC

Global leader in K-12 STEM education



Enhance teaching and learning



Visitors recognize challenges, resilience and victories of African Americans in STEM



STEM in historical context



Collection of the Smithsonian National Museum of African American History and Culture and National Portrait Gallery, Gift from Kadir Nelson and the JKBN Group, LLC

New stories



Collection of the Smithsonian National Museum of African American History and Culture

Inform and inspire



Collection of the Smithsonian National Museum of African American History and Culture

- Learn and apply \bullet
- **Recognize and appreciate STEM**
- Value contributions





STEM programs at NMAAHC serve multiple audiences





STEM Educator Professional Learning Workshops

February 2021 – July 2021



Upcoming Programs

Wikipedia Editathon

<u>Date</u> February 21, 2021 – March 6, 2021

Duration

2 weeks Kickoff dates

- February 21, 2021
- February 28, 2021

<u>Topic</u>

African American Computer Scientists and Engineers / African American Women in STEM

Registration is closed

Creating Supportive and Inclusive Classrooms for Students

Date March 10, 2021

Duration 2 hours

Topic

Learning more about inclusive teaching frameworks for improving the teaching and learning in the classroom From Research Subjects to Researchers: The History of African Americans and Biomedical Research

<u>Date</u> May (TBD)

Duration 2 days (4-6hrs total)

<u>Topic</u>

Contributions and impacts of African American participation in biomedicine African Americans in the Earth and Environmental Sciences

<u>Date</u> July (TBD)

Duration Multiday (~10 hours total)

Topic Explore the relationship between African Americans and the environment throughout history



Three easy ways to learn of upcoming programs





Student Resources



Exploring Space with Victor Glover

- Follow his journey
 - Lift off to return to Earth
- Activities
 - Chat from ISS
 - Art and Teamwork
 - Student artwork submission
 - Additional activities and information
 - NMAAHC collections
 - Student activities
 - Coloring pages
 - Games



Art and Teamwork

A Collaboration Between Astronaut Victor Glover and the Smithsonian







Through the Window and Into the Mirror: A Career Conversation Series

- Middle and High school students
- Explore STEM careers
- Windows and Mirrors
 - See others + See themselves
- Information
- Inspiration
- Action



Through the Window and Into the Mirror: A Career Conversation Series

- Earth and Environmental Sciences
- Begins February 26, 2021
- Monthly
 - February through June 2021



Austin Jordan Communications Director Redwire Space



Imani Black Oyster farmer and Aquaculturalist



Exploring Digital Resources



Smithsonian Institution Collections Search

- 6 million+ online images, audio and video
- How can you use it?
 - Object-based learning
 - Supplement existing lessons
 - Engage visual and auditory learners ullet
 - **Reveal new connections** ullet



ollection of the Smithsonian National Museum of African American History and Culture, Gift of Annie Leibovitz



Collection of the Smithsonian National Museum of African American History and Culture, Gift of Mai, Gen, Charles F, Bolden Jr., USMC (Ret)

New Research Reveals the Transatlantic Slave Trade's Genetic Legacy Scientists investigated whether genetic data collected from 50,000 volunteers lined up with historical shipping manifests TANNAL DI MULTINA DI MANALANA IN IS A THE MAN AND A MANY A MANY A





Collection of the Smithsonian National Museum of African American History and Culture

Smithsonian Learning Lab

- Discovery, Creation and Sharing
 - 1 million+ images, recordings and texts
- Educator created lessons
 - Copy and edit
 - Download and share
 - Add quiz questions

Weekly support

- Tuesdays 4-5pm EST
- NMAAHC examples
 - Topical lessons
 - Student lessons
 - Lesson plans
 - Discovering little-known history





STEM programs at NMAAHC are generously sponsored by the Dow Chemical Company



O Smithsonian



Questions?



