Education Resources for STEM Educators

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NMAAHC STEM Education Specialist
February 10, 2021
Learning Goals

**Programs**

**Digital Lessons**

**NMAAHC’s Collections**

A Celebration of African Americans at NASA

As part of Smithsonian’s 50th anniversary of the Apollo 11 mission
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

New stories

Inform and inspire

• Learn and apply
• Recognize and appreciate STEM
• Value contributions
STEM programs at NMAAHC serve multiple audiences

STEM Teacher Fellowship
K-12 Educator Workshops
Museum-based Programs
STEM Days
STEM Educator Professional Learning Workshops

February 2021 – July 2021
Upcoming Programs

Wikipedia Editathon

**Date**
February 21, 2021 – March 6, 2021

**Duration**
2 weeks

Kickoff dates
- February 21, 2021
- February 28, 2021

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

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

**Date**
May (TBD)

**Duration**
2 days (4-6hrs total)

**Topic**
Contributions and impacts of African American participation in biomedicine

African Americans in the Earth and Environmental Sciences

**Date**
July (TBD)

**Duration**
Multiday (~10 hours total)

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

Registration is closed
Three easy ways to learn of upcoming programs

- **Smithsonian Events Calendar**
  - Upcoming programs from all SI museums and Zoo

- **NMAAHC Events Calendar**
  - Upcoming programs from NMAAHC

- **NMAAHC STEM Webpage**
  - Upcoming STEM programs from NMAAHC
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
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
  • Reveal new connections

New Research Reveals the Transatlantic Slave Trade’s Genetic Legacy

Scientists investigated whether genetic data collected from 30,000 volunteers lined up with historical shipping manifests.
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.
Questions?