Take a Voyage through the Solar System with the NISE Network!

Online Workshop Summary of Resources

May 9, 2023

Online Workshop Presenters

- **Patricia Moore,** Exploration Systems Development Mission Directorate, NASA; PATRICIA.L.MOORE@NASA.GOV & 281-636-2919
- **Ali Jackson**, Science Center in Ithaca, NY
- **Peregrine Bratchi**, Museum of Life and Science in Durham, NC
- **Darrell Porcello,** Children's Creativity Museum in San Francisco, CA

Recording of the Online Workshop on Vimeo

- https://vimeo.com/nisenet/takeavoyagekit2023

Online Workshop Links and Resources

NISE Network Resources

- **Voyage through the Solar System – Project Info & Resources:** https://www.nisenet.org/voyage-solar-system
- Earth & Space Learning and Content Frameworks: https://www.nisenet.org/earth-space-frameworks
- Explore Science: Earth & Space toolkits: https://www.nisenet.org/earthspacekit
- Astronomy resources: https://www.nisenet.org/astronomy
- Solar Eclipse resources: https://www.nisenet.org/solareclipse
  - **Saturday, October 14, 2023** - Annular Solar Eclipse
  - **Monday, April 8, 2024 -** Total Solar Eclipse
- **DIY Sun Science**:
  - App Store: https://apps.apple.com/tr/app/diy-sun-science/id836712493
  - Google Play: https://play.google.com/store/apps/details?id=org.lawrencehallofscience.diysunscience&pli=1

Additional Resources

- **Artemis Outreach Resources** (Download from Box): https://nasa-external-ocomm.app.box.com/s/onrtmdvofqluv5ei5kfu5u1pf8v4xqtl
- **Lunar Geology Resources:**
  - Landings Humans on the Moon: https://www.nasa.gov/stem-ed-resources/landing-humans-on-the-moon.html
  - Moon Observation Journal: https://moon.nasa.gov/resources/12/moon-observation-journal/?site=observe%

20the%20moon
    - Edible Rocks: https://www.jpl.nasa.gov/edu/teach/activity/edible-rocks/
    - Sculpting Lunar Geology: https://www.nasa.gov/stem-ed-resources/activity-two-sculpting-lunar-geology.html
    - Oreo Moon Phases: https://spaceplace.nasa.gov/oreo-moon/en/
    - Crater Drop: https://www.jpl.nasa.gov/edu/learn/project/make-a-moon-crater/
    - Lava Layering: Making & Mapping a Volcano: https://www.jpl.nasa.gov/edu/teach/activity/lava-layering-making-and-mapping-a-volcano/
- **Deep Space Astronauts**
    - Human Physiology Demos:
        - Get A LEG UP: https://www.nasa.gov/stem-ed-resources/get-a-leg-up-activity.html
        - HOW Quick Are Your Responses: https://www.nasa.gov/pdf/544715main_How_Quick.pdf
        - Bag of Bones: https://www.nasa.gov/stem-ed-resources/bag-of-bones-activity.html
        - Brain in Space: https://www.nasa.gov/stem-ed-resources/brain-in-space.html
    - Ray Shielding Activity: https://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/Ray_Shielding_Activity.html
    - Hazards of Deed Space Astronauts Educator Guide: https://www.nasa.gov/stem-ed-resources/hazards-to-deep-space-astronauts.html
    - Exploration Design Challenging (2014 Archived): https://www.nasa.gov/education/edc/
- **Lunar Robots Resources:**
    - Roving on the Moon: Cardboard Rover: https://www.jpl.nasa.gov/edu/teach/activity/roving-on-the-moon/
    - Safe Landing on the Lunar Surface: https://www.nasa.gov/stem-ed-resources/activity-four-safe-landing-on-the-lunar-surface.html
    - Touch Down: https://www.jpl.nasa.gov/edu/teach/activity/touchdown/
    - Robotic Arm Challenge: https://www.jpl.nasa.gov/edu/teach/activity/robotic-arm-challenge/
- **Suit Resources:**
    - Cool Suits: https://www.nasa.gov/stem-ed-resources/cool-suits-activity.html
    - Micrometeoroid & Space Debris: https://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/Micrometeoroids_Space_Debris.html
    - Bending Under Pressure: https://www.nasa.gov/stem-ed-resources/sfs-bending-under-pressure.html
    - Artemis Generation Suit Educator Guide: https://www.nasa.gov/stem-ed-resources/artemis-generation-spacesuits.html
- **You Are Going, A Story About Artemis Digital Book:** https://www.nasa.gov/specials/you-are-going/
    - Learn How to Draw Artemis: https://www.nasa.gov/drawartemis
    - NASA Space Place Art Challenge: https://spaceplace.nasa.gov/art-challenge/en/
    - NASA Langley Student Art Contest: https://artcontest.larc.nasa.gov/

    - The Moon As Art: https://moon.nasa.gov/resources/100/the-moon-as-art/
- **NASA STEM Engagement**: https://www.nasa.gov/stem/nextgenstem/moon/index.html
- **The Adventures of Commander Moonikin Campos and Friends**: https://www.nasa.gov/specials/moonikin-comic/
- **NASA STEM Engagement - K-12 Educators:** https://www.nasa.gov/stem/foreducators/k-12/index.html
    - Educator Guides & Lesson Plans:
        - Crew Transportation Systems with Orion: https://www.nasa.gov/stem-ed-resources/transportation.html
        - Propulsion With the SLS: https://www.nasa.gov/stem-ed-resources/propulsion.html
        - Habitation With Gateway: https://www.nasa.gov/stem-ed-resources/gateway.html
        - Landing Humans on the Moon: https://www.nasa.gov/stem-ed-resources/landing-humans-on-the-moon.html
        - Hazards to Deep Space: https://www.nasa.gov/stem-ed-resources/hazards-to-deep-space-astronauts.html
        - Deep Space Communications: https://www.nasa.gov/stem-ed-resources/deep-space-communications.html
- **Requesting a NASA Speaker – In Person and Virtual Speakers:**
    - NASA Speakers Bureau: https://www.nasa.gov/about/speakers/nasa-speakers-howto.html
    - Astronaut Appearance: https://www.nasa.gov/about/speakers/astronautappearances.html
- **Borrowing NASA Exhibits or Artifacts:** https://www.nasa.gov/audience/foreducators/informal/Exhibits.html
    - Lunar and Meteorite Samples: https://ares.jsc.nasa.gov/interaction/lmdp/
- NASA Express: https://www.nasa.gov/stem/express
- Join the Artemis Mission to the Moon: https://stem.nasa.gov/artemis/

Staying Connected to the NISE Network

- Upcoming NISE Network online workshops: https://www.nisenet.org/events
- Read the monthly newsletter: https://www.nisenet.org/newsletter
- Follow #nisenet on social media: https://www.nisenet.org/social

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