

# Moon, Mars, and Beyond Exhibition Pre-Application Webinar

- Thank you for joining us for the Moon, Mars, and Beyond Exhibition pre-application webinar!
- If your audio isn't working, hit the "test audio" button. Make sure you don't have headphones plugged in! You will be muted. If you'd like to ask a question, type it in the chat box.
- I will unmute folks at the end for Q&A



## Agenda

- Webinar Guidelines
- Describe Moon, Mars, and Beyond project and relation to STAR\_Net
- Describe Exhibit
- Discuss application questions and requirements
- Discuss External Evaluation Requirements
- Q&A

# Webinar Guidelines

- If you have questions during the webinar please use the chat function
- Please let us know (in chat) if we're talking too slow, or need to speak up!
- Please make sure to send any chats that are relevant to the whole group to "all panelists and participants"
- If you are having technical issues, please send a chat directly to Stephanie
- This webinar is being recorded. The recording and slide deck will be posted after the webinar

## About STAR Net

- Community of over 8000 library professionals interested in STEAM activities, exhibitions, and kits for their patrons
- With federal funding from NASA and NSF, provides free training, exhibitions, kits, and (fingers crossed) glasses for the 2023 and 2024 eclipses!



## **Overall Project Context**

- O The content area is NASA's Artemis program (returning humans to the moon, with an eye towards Mars).
- O The primary deliverable is a touring library exhibit, accompanied by resources and training for the host libraries.
- Exhibit Audience and age target: library patrons of all ages and backgrounds. Something for everyone!



# Possible Themes and Guidelines

#### Organizing Themes

- 1. Comparative Planetology: differences and similarities between Earth/ Moon/ Mars;
- 2. How we're doing it (technology, process, living in a bubble, long term plans);
- 3. How we benefit (why do we care; how does it help us on earth);

Design Guidelines: (things we're trying to embed throughout the exhibit, and that we hope to provide support for you all to embed in programs)

- 1. EDGE and UDL concepts
- Personal Connections
- 3. Careers: examples, opportunities for visitors to see themselves in a career
- 4. NASA's priorities



# The EDGE Design Framework

#### **The EDGE Design Attributes**

**EXHIBIT LABELS** 







Image of a person

EXHIBIT LOOK-AND-FEEL



Familiar object



Homey, personal, homemade, or delicate



Playful, whimsical, or humorous

**EXHIBIT INTERACTIONS** 



Multiple stations or sides



Space to accommodate three or more people



Visitors can watch others to preview



Open-ended

## Universal Design for Learning Guidelines

#### I. Provide Multiple Means of Representation

- 1: Provide options for perception
- 1.1 Offer ways of customizing the display of information
- 1.2 Offer alternatives for auditory information
- 1.3 Offer alternatives for visual information

### II. Provide Multiple Means of Action and Expression

- 4: Provide options for physical action
- 4.1 Vary the methods for response and navigation
- 4.2 Optimize access to tools and assistive technologies

#### III. Provide Multiple Means of Engagement

- 7: Provide options for recruiting interest
- 7.1 Optimize individual choice and autonomy
- 7.2 Optimize relevance, value, and authenticity
- 7.3 Minimize threats and distractions

- 2: Provide options for language, mathematical expressions, and symbols
- 2.1 Clarify vocabulary and symbols
- 2.2 Clarify syntax and structure
- 2.3 Support decoding of text, mathematical notation, and symbols
- 2.4 Promote understanding across languages
- 2.5 Illustrate through multiple media

- 5: Provide options for expression and communication
- 5.1 Use multiple media for communication
- 5.2 Use multiple tools for construction and composition
- 5.3 Build fluencies with graduated levels of support for practice and performance
- 8: Provide options for sustaining effort and persistence
- 8.1 Heighten salience of goals and objectives
- 8.2 Vary demands and resources to optimize challenge
- 8.3 Foster collaboration and community
- 8.4 Increase mastery-oriented feedback

- 3: Provide options for comprehension
- 3.1 Activate or supply background knowledge
- 3.2. Highlight patterns, critical features, big ideas, and relationships
- 3.3 Guide information processing, visualization, and manipulation
- 3.4 Maximize transfer and generalization

- 6: Provide options for executive functions
- 6.1 Guide appropriate goal-setting
- 6.2 Support planning and strategy development
- 6.3 Facilitate managing information and resources
- 6.4 Enhance capacity for monitoring progress

- 9: Provide options for self-regulation
- 9.1 Promote expectations and beliefs that optimize motivation
- 9.2 Facilitate personal coping skills and strategies
- 9.3 Develop self-assessment and reflection

Resourceful, knowledgeable learners

Strategic, goal-directed learners

Purposeful, motivated learners



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## Moon, Mars, and Beyond Exhibition

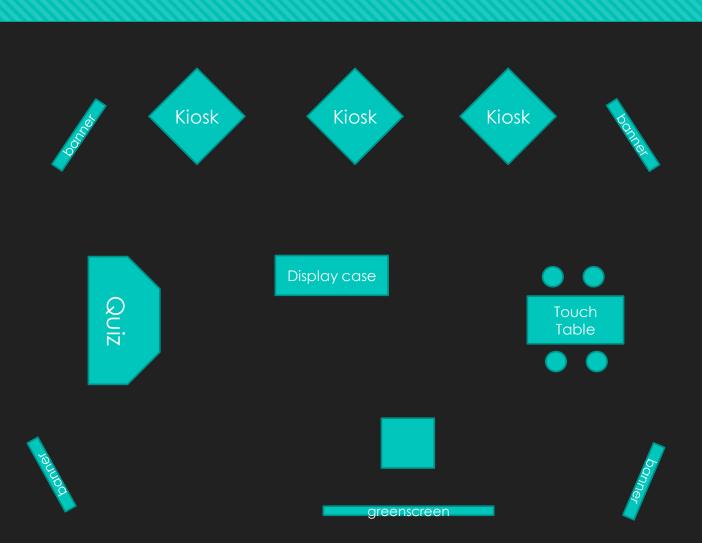
- Approximately 1000 square foot exhibition (not contiguous!)
- In-person training for 8 host sites
- Opportunities for non host sites to participate in webinars and in-person Lunar and Meteorite Sample Training from Johnson Space Center
- Related activities and resources will be added to the STEM Activity Clearinghouse
- This project is funded by NASA, under Grant Number 80NSSC21M0081. The views represented in this presentation and exhibition do not necessarily represent the views of NASA

## **Example Exhibit Components**

These are components available to us to refurb from previous exhibits.

- Computer Interactive Kiosks
- Quiz kiosk
- Touch table
- O Greenscreen
- View from ISS, or another video
- O Dot votes
- Timeline/sticky notes
- O Display Case

Total ~ 1000 square feet, not contiguous



## Host Sites Benefits

- 8 Partner Venues (including pilot site in Colorado)
- In-person workshop in Colorado (location tbd) for 2 staff members from each host site, costs covered by the grant
- Access to Johnson Space Center Lunar and Meteorite Training at kickoff workshop
- Access to NASA Subject Matter Experts for programs
- Consultation for required Community Dialogues
- Technical support (for exhibits and programs) through NCIL/SSI



Spotlyke on Science

The Medical Weather Service NWSS is the part of the US. Government responsible introduced in the US of the

The MWS has now terropoling content process the country. The two concorned with several weather that could affect you set the fractional Plantaine Center in Procisio and the Storm Protection Center in Obligations.



#### What's Next?

Predicting is an important part of the scientific process, it's tarmore than guessing. Scientists build complex models based on everything they've observed to make predictions. They compare these results with what actually happens.

You're probately familiar with weather forecasting. But, metocratigors are not the only scientists making predictions about Earth's systems. Some study when volcaness will orupt, others try to figure out how black the ice pack will be this winder.

and then revise their models.

#### Diffigult Predictions

Some predictions are notoriously tricky, for instance, scientists know days in advance when a hurricane is headed to land and they even have a good idea where it will strike. But, scientists find tomodoes very difficult so predict. They can't always say when and where they will hit.



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Background above Mastel St. Helevis empts on May 18, 1960 in Westington







## **Exhibit Tour Dates**

- 3/1/22 4/30/22
- 5/5/22 7/5/22
- 7/10/22 9/10/22
- 9/15/22 11/15/22
- 11/20/22 1/20/23
- 1/25/23 3/25/23
- 4/1/23 6/30/23
- 7/5/23 9/15/23



## Host Site Requirements

- Must be a public or tribal library located in the US (libraries in schools and universities will be considered IF they
  also serve as a public library)
- Host a minimum of 10 public programs
- Host at least 2 Community Dialogues
- Participation in project evaluation
- Have explicit plans to target underserved audiences
- Minimum ceiling height of 8ft
- Preferably a loading dock or double front door, but at the very least a standard width single door (this has been a concern mostly at old Carnegie libraries)
- Wifi
- Storage
- Insurance

## **External Evaluation of Project**

- Educational Development Center External evaluators
- Why evaluation?
- Your Role in the evaluation
- Questions

## Application

- Application opens today
- Due date November 15<sup>th</sup>
- Please email all exhibit/application questions directly to Anne Holland (<u>aholland@spacescience.org</u>), all responses will be added to the FAQ to ensure an equitable process
- Please read the FAQ and Rubric in detail before applying. We're not here to trick anyone!