



Empowering Girls in Science Through Growth Mindset and the New Girl Scout Space Science Badges

Online Workshop Summary of Resources
10-8-2019

ONLINE WORKSHOP PRESENTERS

- **Brad Herring**, Museum of Life and Science
- **Pamela Harman**, SETI Institute
- **Theresa Summer**, Astronomical Society of the Pacific
- **Suzanne Harper**, Girl Scouts of the USA
- **Wendy Chin**, Girl Scouts of the USA

RECORDING OF THE ONLINE WORKSHOP ON VIMEO

- <https://vimeo.com/365348302>

ONLINE WORKSHOP LINKS AND RESOURCES

NISE Network Resources

- About NISE Net's Earth and Space Project: <https://www.nisenet.org/space>
- Previous Explore Science: Earth & Space toolkits (2017, 2018, and 2019): <http://www.nisenet.org/earthspacekit>
- **Online submission: Applications for the Explore Science: Earth & Space 2020 toolkit must be submitted online using SurveyGizmo by November 1, 2019**
 - Preview the application: <http://www.nisenet.org/earthspacekit-apply>
 - SurveyGizmo application link: <https://www.surveygizmo.com/s3/5165260/Earth-Space-Toolkit-2020-Application>
- Using your toolkit year round: <https://www.nisenet.org/seasons>

PARTNER RESOURCES

- SETI Education and Outreach: <https://www.seti.org/seti-educators>

Astronomical Society of the Pacific (ASP)

- The Astronomical Society of the Pacific: www.astrosociety.org
- The Night Sky Network: <https://nightsky.jpl.nasa.gov/index.cfm>
 - Outreach Resources to help make meaningful connections with Girl Scouts: https://nightsky.jpl.nasa.gov/download-view.cfm?Doc_ID=618

Girl Scouts

- Girl Scout Council Finder:
<https://www.girlscouts.org/en/about-girl-scouts/join/council-finder.html>
- Award and Badge Explorer – filter by grade level and topic:
https://www.girlscouts.org/en/our-program/badges/badge_explorer.html

ONLINE WORKSHOP Q&A

Q: Where can we get list of local Explore Science: Earth & Space toolkit recipients so that we can link our troops with them?

A: You can see the full list of organizations that received a 2017, 2018, and/or 2019 toolkit at <https://www.nisenet.org/earthspacekit>. For contact information, please contact your Regional Hub Leader (<https://www.nisenet.org/contact>).

Q: What strategies is Girl Scouts using to increase numbers of underrepresented girls and first generation college bound girls in these STEM activities?

A: Our 111 councils produce community outreach programs for low-income and underrepresented areas, which include at-risk, college bound girls who are from Title 1 schools. Led by council staff, these programs cover life skills, STEM activities and careers.

GSUSA has developed a comprehensive strategy to engage and support underrepresented girls, which include Latina, African American, and Native American ethnicities, with an increased focus on Latina participation in Girl Scouts.

GSUSA is looking to create a pathway from Girl Scout STEM activities to STEM coursework and careers, particularly for underrepresented girls. To that end, in 2020, we are piloting an initiative with two councils that serve significant numbers of underrepresented and/or first-generation college-bound girls to couple a STEM badge with access to a college-level math course.

Q: Are the Girl Scout Badge and Journey requirements available online for free?

A: The requirements are available on the girlscouts.org site, under Award and Badge Explorer. The full meeting plans, including activity instructions, are available to Girl Scout volunteers on our Volunteer Toolkit online site.

Q: The new space science badges have digital astronomy and astrophotography woven into them. Is there a resource page with references to support those activities?

A: Within the Cadette Space Science Researcher Badge in the Volunteer Toolkit, volunteers will find downloadable meeting aids for capturing celestial images, including astrophotography guidelines, a recommended night sky shot list and digital apps and websites that support night sky viewing.

NISE NETWORK UPCOMING ONLINE WORKSHOPS

Full list of upcoming online workshops: <http://nisenet.org/event-type/online-workshop>

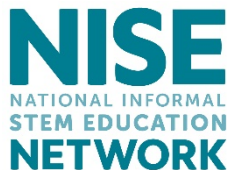
- 11/19/19: Programming for Audiences with Special Needs:
<https://www.nisenet.org/events/online-workshop/online-workshop-programming-audiences-special-needs>
- 12/10/19: Using Your Explore Science: Earth & Space Toolkit Outdoors – Practical Advice for Collaborations and Logistical Aspects:
<https://www.nisenet.org/events/online-workshop/online-workshop-using-your-explore-science-earth-space-toolkit-outdoors>

ADDITIONAL RESOURCES

- Continue online workshop discussions around the Explore Science: Earth & Space project through the free Ryver forum:
<https://museumalliance.ryver.com/#posts/2168096>

STAYING CONNECTED TO THE NISE NETWORK

- Subscribe to the monthly newsletter: <https://www.nisenet.org/newsletter>
- Follow NISE Net on social networking: <https://www.nisenet.org/social>
- Contact your Regional Hub Leader with questions:
<https://www.nisenet.org/contact>



Developed and distributed by the National Informal STEM Education Network.

Copyright 2019, Arizona State University. Published under a Creative Commons Attribution-Noncommercial-ShareAlike license:

<http://creativecommons.org/licenses/by-ncsa/3.0/us/>

This material is based upon work supported by NASA under cooperative agreement award number NNX16AC67A and 80NSSC18M0061. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the view of the National Aeronautics and Space Administration (NASA).