Enlivening Earth Science NGSS: Using Geoheritage and Place-Based Education to Highlight and Integrate Dimensions of Earth Science Relevance

About the workshop:
The fascinating phenomena of Earth and space science take on heightened relevance in learners’ lives when presented through the frameworks of geoheritage and place-based education.

Workshop take-aways:
There are practical approaches for accentuating the excitement of Earth and space sciences as they are shown to intersect with human life, history, and culture.

The connection of geoscience with human history and culture--what is increasingly known as geoheritage--has great potential in education as a reference framework that encourages learning as well as promoting conservation of significant natural features.

The dimensions of the NGSS, the big ideas of geoheritage, and the design principles of place-based education are mutually supportive--which together lead to strategies for meaningful learning in Earth and space science.

Geoheritage Lesson Plan Template:
Integrating geoheritage into lessons is easy with this quick-start template.

Geoheritage tour of Mt. St. Helens:
Visit Mt. St. Helens in this geoheritage immersive tour.

America’s Geologic Heritage: An Invitation to Leadership
From the American Geosciences Institute and Earth Science Week, this booklet presents the reader with a deep dive into the big ideas of America’s geologic heritage in a visually stunning format.

Workshop slides:
Join us on Wednesday, 4/21 at 7 p.m. ET for a lively and engaging workshop where you’ll learn about integrating Geoheritage in your classroom.
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Workshop Presenters:

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Additional Geoheritage Resources:

Our Shared Geoheritage (resource webpage) -- American Geosciences Institute (AGI) --
https://www.earthsciweek.org/content/our-shared-geoheritage

Earth Science All Around -- Click the Geoheritage page for NSTA workshop materials

Geoheritage Position Statement -- Geological Society of America --

New Approaches to Communication and Education through Geoheritage (article by Daniel Tormey) --
International Journal of Geoheritage and Geoparks --

America's Geoheritage -- National Park Service --
https://www.nps.gov/subjects/geology/americas-geoheritage.htm

Unofficial Register of Geoheritage Sites -- National Park Service --
https://www.nps.gov/subjects/geology/unofficial-register.htm

Values Embodied in Geoheritage (article series) -- National Park Service
https://www.nps.gov/articles/series.htm?id=29E0CA29-A137-25A5-51554A2D50C99586

National Natural Landmarks -- National Park Service, National Natural Landmarks Program
https://www.nps.gov/subjects/nnlandmarks/index.htm

U.S. Geoheritage and Geoparks Advisory Group (website with background on geoheritage--click on “What’s Happening?” for links to organizations with more resources) --
https://www.americasgeoheritage.com/

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