Cascade Volcanoes Teaching Resources and Professional Development Opportunities

**Professional Development:**

Special workshops and trainings for school staff upon request: USGS staff offer half, full, and multi-day workshops for teachers in volcanic areas of Washington state. Each is designed to provide educators with up-to-date information about their nearby volcano, and how to use existing curricula in classroom. Free. Clock hours offered. Contact outreach staff.


**In-Class and At-Home Learning Resources:**

Mount St. Helens Institute (MSHI)  
[https://www.mshinstitute.org/](https://www.mshinstitute.org/)  
hosts the 2020 40th anniversary online resources. Check back frequently for links to activities, interviews, and special events assembled by MSHI staff and partners at Mount St. Helens National Volcanic Monument, Washington State Parks, USGS, the Army Corps of Engineers, Oregon Museum of Science and Industry (OMSI), Smithsonian, and others. *Keep Watching! More opportunities will be added!*

Living with a Volcano in Your Backyard Educator Guide available online: Lots of Activities about volcanoes! The Living with a Volcano in Your Backyard—An Educator’s Guide was designed by and for scientists and educators in the Mount Rainier area. We invite educators and their students to learn what scientists are discovering about Mount Rainier’s past; to explore its mysteries during this period of quiescence; and to plan future responses to volcanic unrest. [http://pubs.er.usgs.gov/publication/gip19](http://pubs.er.usgs.gov/publication/gip19)

USGS Webshort videos

Interviews with scientists:


**Mount St. Helens Classroom Activities:** Mount St. Helens  
Mount St. Helens Science and Learning Center  
[http://www.mshslc.org/education-resources/](http://www.mshslc.org/education-resources/)
VolFilms: Always online. The project oversees the development of short, educational films about volcano hazard, impacts, and the experiences of others. Developers have used a modular approach, designing three types of films that can be watched individually or in sequence. Useful for augmenting existing school curriculum. English and Spanish. 
https://vimeo.com/volfilm

Volcano Explorers: (watch website for potential Fall 2020 showings) Volcano webinars for classrooms, offered by Mount St. Helens National Volcanic Monument, Mount St. Helens Institute, and the USGS. http://mshinstitute.org/

USGS Cascades Volcano Observatory Website, including HOT STUFF Current Events: http://volcanoes.usgs.gov/observatories/cvo/


Communications about volcano status:

USGS Volcanoes on Social Media: Postings about volcanoes in the US, the work of volcano scientists; and weekly volcano activity updates. Facebook, Instagram, Twitter. https://www.facebook.com/USGSVolcanoes


Special Opportunities:

Geogirls: Early August annually. Five-day immersion into Mount St. Helens and geology careers for middle-school girls offered through USGS/Mount St. Helens Institute/several universities. Application period will open in late winter/early spring, 2021. WATCH THIS WEBSITE: http://www.mshslc.org/

Volcano Awareness Month: Declaration by governor, press release, special events in communities and online. Multi-agency commemoration annually since 2004. Check for annual Reddit AMA sessions about volcanoes.

Public Open House at USGS Cascades Volcano Observatory: Held every 2 to 3 years in May. Next scheduled for May 2021. Information on CVO website.
Opportunities for community officials and the public:

**USGS-CVO Presentations and Trainings**: We tailor our presentations to the audience and your needs for information. FEMA/USGS Volcano Crisis Awareness course and tailored trainings available upon request for school safety organizations, teachers, district officials, public information specialists.

**USGS Volcano Traveling Community Exhibits**: Table top temporary exhibits for Mount Baker/Glacier Peak; Rainier, volcanic ash, Cascade volcano hazards. Available on loan upon request. Commonly displayed in schools libraries, and special community events.

**Community Interpretive Signs**: Available on request at 11X17”; large scale version is suitable for posting outdoors. For permanent and temporary display and distribution at special events.

**USGS Fact Sheets for Washington Volcanoes and Hazards**

*Ten ways that Mount St. Helens changed our world—the enduring legacy of the 1980 eruption*

*Living with volcano hazards*

*When volcanoes fall down—Catastrophic collapse and debris avalanches (ver. 1.2, August 2019)*

*Lahar—River of volcanic mud and debris*

*Volcanic ash fall—a “hard rain” of abrasive particles*

*Mount Baker - living with an active volcano*

*Glacier Peak – History and hazards of a Cascade Volcano*

*Mount Rainier—Living safely with a volcano in your backyard*

*Mount St. Helens, 1980 to now—what’s going on?*

*Mount St. Helens -- From the 1980 Eruption to 2000*

*Pre-1980 eruptive history of Mount St. Helens, Washington*

USGS Contacts: Carolyn Driedger driedger@usgs.gov   Liz Westby lwestby@usgs.gov