

TEACHER GUIDE for Volcanic Outgassing Videos

We'd like students to have an opportunity to observe outgassing from an active volcano in order to stimulate thinking about the release of water and other gases prior to engaging in the volcano reading. There are endless options on YouTube, but consider using one of the following. Whichever you choose, be certain to preview the video and decide whether you will mute and narrate the video or if you will allow the native audio to play.

The phenomenon-based choices might be a good choice for a first video. Others (at least with the sound on) might be more sensible following the student reading on volcanoes and outgassing.

Some mention of water vapor and undersea bubbling; 1:52

"Undersea Volcano Eruptions Caught on Video" (Discovery)

<https://www.youtube.com/watch?v=hmMIspNoZMs>

Narration and captioning has lots of detail about gases and consequences; 4:06

"Volcanic Gas: The Impact (VolFilm)" (uwiseismic)

<https://www.youtube.com/watch?v=rB8LxA2fpYE>

Phenomenon-based choice (very little narration); 4:43

"Krakatoa volcano explodes: spectacular huge eruption two months before 2018 tsunami" (VolcanoDiscovery)

<https://www.youtube.com/watch?v=NLhjNzQHphQ>

Phenomenon-based choice (no narration really); 1:16

"Explosive eruption of Sakurajima on November 12, 2019." (TN)

<https://www.youtube.com/watch?v=wqxnJQcQXss>

An advanced, more earth-science-based quantitative option for classrooms where this might be appropriate; 5:15

"Demonstration of Volcanic Gas Ratios" (GeoScience Videos)

https://www.youtube.com/watch?v=Azw8L1Ud_S4&ab_channel=DeepCarbon