**Permafrost Laboratory Overview**

This is a laboratory activity designed to teach middle and high school students about the impact of global warming on the Arctic permafrost. Students will freeze soil and water in an icecube tray and then at time intervals will look at how much soil can be removed to understand that thawing of the permafrost releases both soil and water and can lead to large changes in the geography.

The lab was designed to be done with simple materials that students would have available in the home. So teachers can assign students to do this class project outside of the classroom. Alternatively, students can work in teams in the classroom to undertake this lab project.

<u>Materials to Download</u>

- Permafrost Stream Erosion Lab instructions
- Permafrost Lab Introductory Video
- Permafrost Lab Video 2
- Permafrost Lab knowledge assessment questions