

Middle School Earth Science

Stratigraphy & Lava Canyon Activities Option II

- ???:? to 9:15 Gather Chaperones and define your expectations for them during the field trip. Chaperones are responsible for helping students complete their assigned activities and for supervising their student groups' behavior at all times. Leave your school and drive on I-5 to the Woodland exit #21.
- 9:15 to 10:30 From Woodland, drive on State Route 503 through the town of Cougar. There the road changes to Forest Road 90. Follow Forest Road 90 seven miles and take a left turn on Forest Road 83. Follow Forest Road 83 eleven miles. Drive $\frac{1}{4}$ mile past the Lahar Viewpoint and park at the Stratigraphy Viewpoint in the oversized vehicle pullout on the left side of the road.
- 10:30 to 11:30 At the interpretive sign explain the lahar component of the "Strata Stories" activity then have students walk in a single file line to the base of the strata layers. Students observe strata layers and use information gained from the "case facts" to complete the worksheet "Strata Stories".
- 11:30 to 12:15 Load up bus and drive to the Lava Canyon Trailhead. Unload bus, bathroom break, followed by lunch break.
- 12:15 to 12:20 Gather students at the Lava Canyon trailhead and explain that they will be conducting an activity near a fast-moving, cold river and cliff faces. Students must stay on the trail and remain with their adult chaperone at all times. Fatal accidents have occurred in Lava Canyon when people got off the trail. Set clear expectations for student conduct along the trail—anyone caught off trail or who does not listen to their chaperone will be sent back to the bus and receive a failing grade.
- 12:20 to 1:45 Walk $\frac{1}{4}$ mile on the paved section of the trail to a large boardwalk platform overlooking Lava Canyon. Students will make observations about the 1980 lahar and complete question "A" on the worksheet "Rating Erosion Rates". Then continue $\frac{1}{4}$ mile on the paved trail to the intermediate trail intersection. Turn right and proceed 50-feet down the intermediate trail and stop at the waterfall viewpoint with the metal fence. Students will conduct an experiment and make observations about water erosion to answer question "B" on their worksheet. "Rating Erosion Rates". Cross the bridge and have students complete additional experiments and answer the remaining questions. Proceed $\frac{3}{4}$ mile on the intermediate trail, cross the suspension bridge, turn left, and loop back to the parking lot.
- 1:45 to 2:00 Bathroom break, load up bus and depart for your school.