

Week 3 – The earth moves

Goal – To make students comfortable with turning layers on and off in the Table of Contents in order to observe data and obtain additional information to analyze and answer geologic hazard questions.

Note – Beginning in week 3, the GeoMentor began creating a customized lesson map for students, loading various ESRI, USGS, Washington State Department of Transportation and Snohomish County GIS layers and creating bookmarks at different scales

1. Using the supplement page map, have students draw on map where they think earthquakes occur – 30 minutes

Have them answer questions 1 – 3 on supplemental answer sheet

Discuss and compare with 4 student groups

GeoMentor reviews some answers with students – group answers

2. Have students open ArcGIS Online Lesson Map – 15 minutes

Map instructions for students:

Click on Modify Map

Click on Contents

Turn on tectonic plates and observe earthquake locations at multiple scales

Have students answer Question 1 on student answer sheet

3. Have students turn on USGS Earthquake Faults layer – 15 minutes

Have students click on Snohomish County bookmark

Have students answer Question 2 on student answer sheet

4. Have students turn on Large Cities layer – 15 minutes

Have students answer Question 3 on student answer sheet and Question 4 on supplemental answer sheet

5. If time, have students explore layers and browse ArcGIS Online available layers for geologic hazard layers and add them to the map and simply observe what they see.