Earth History: Pacific Northwest Tour

This tour uses Google Earth. You will need a recent version of Google Earth to run this tour. If you need to download a current version of Google Earth or encounter any problems installing or using the program, go to the Google Earth website.

Google also provides a variety of tools, resources, and tips for using Google Earth. Check out the online Google Earth learning center.

To download a tour, right click (or control click if on a Mac) on the file you would like to download. Choose “Save File As” and select a destination to download the file. Open the .KMZ file with Google Earth.

<table>
<thead>
<tr>
<th>Investigation</th>
<th>Tour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investigation 1</td>
<td>Pacific Northwest Tour</td>
</tr>
</tbody>
</table>

Google Earth Settings

You will need an Internet connection when using Google Earth. Once you have installed Google Earth, change these default settings before you begin work:

- Display distance units in kilometers. Change miles to kilometers in "Preferences" under the Google Earth drop-down menu.
- Ensure that the Terrain layer is on in the left sidebar of Google Earth, locate the Layers menu. Check the "Terrain" box to turn terrain on.
- Remove unnecessary layers. In Layers menu of the left sidebar, deselect all the boxes except "Terrain." This will remove place names and political boundaries from the images. You may want to add boundaries, roads and place names after students have first had an opportunity to view Google Earth without these labels.
Introduce new rocks

Pick up a set of Grand Canyon rocks and a container of Pacific Northwest rocks for your group.
Introduce new rocks

Title a page “Rock Observations” and design a data table to record observations.
Share rock knowledge

Share your observations in your group and write questions you have based on observations and group discussion.
Share rock knowledge

The Reporter will share an observation, comparison, or question with the class.
These rocks are all **igneous rocks**. Presence of crystals in rocks is one possible indication that you are looking at an igneous rock.
Identify rocks

- Granite, #11
- Basalt, #12
- Obsidian, #16
Focus question

- How do igneous rocks form?
Earth’s Interior

Earth's Interior

Earth History Course, 5.1: Earth’s Layers
Step 9
Review vocabulary
Spend a few minutes reviewing the vocabulary for this part. Update the vocabulary index and table of contents in your notebook.
Review vocabulary

- asthenosphere
- crust
- crystal
- igneous rock
- inner core
- lava
- lithosphere

- magma
- mantle
- outer core
Answer the focus question

• How do igneous rocks form?
Answer the focus question

• I used to think that ___. Now I know that ___.
• In order to understand ___, you have to know that ___.
• First, ____.
• Then, ____.
• Finally, ____.
• I’m wondering ____.
Homework

Look for igneous rocks in your neighborhood or at home.

Consider these questions,

1. How do you think these rocks ended up where they are?
2. Did they form there or were they imported by people?