

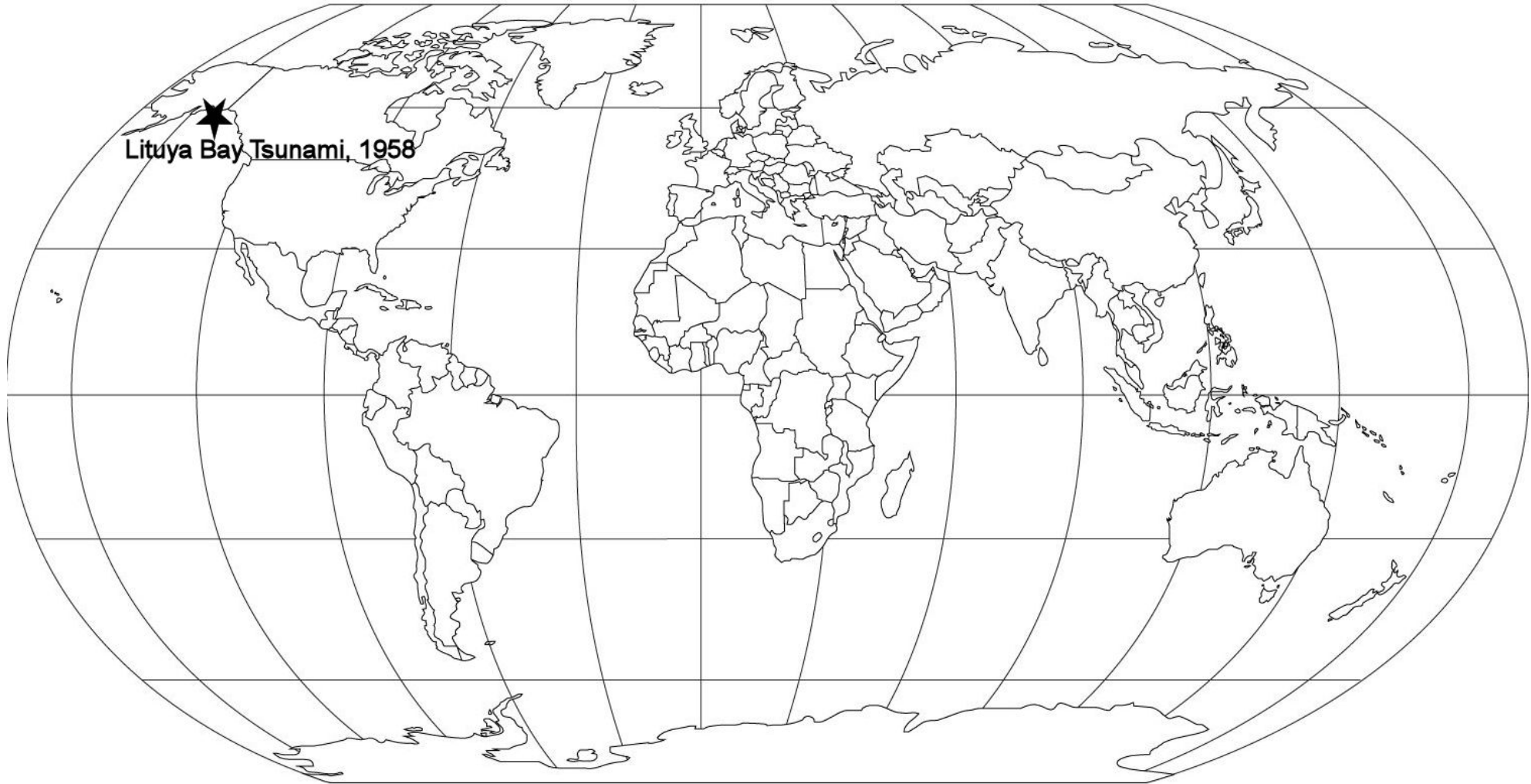
## Geology

### *Pre-Activity – Exploring Changing Landscapes*

<b>Grade</b>	Four	<b>Subject</b>	Science	<b>Time Estimated</b>	30 minutes
<b>Objectives</b>	Students will explore how landscapes can change through research, class discussion and labeling of a map.				
<b>Outcomes</b>	<ul style="list-style-type: none"> <li>• Draw a conclusion, based on evidence gathered through research and observation that answers an initial question (206-5).</li> <li>• Communicate questions, ideas, and intentions, and listen to others while conducting investigation (207-1).</li> <li>• Describe natural phenomena that cause rapid and significant changes to the landscape (301-7)</li> </ul>				
<b>Materials</b>	<ul style="list-style-type: none"> <li>• Map of the world (provided)</li> <li>• Observation sheet (provided)</li> <li>• Pencils</li> </ul>				
<b>Introduction</b>	This activity can be done in class or as homework. Students will be introduced to the exercise by the teacher, who will give them an idea of where they could find information on recent or past events. The teacher should lead the students in a brainstorm of the many ways that landscapes change over time.				
<b>Procedure</b>	Students will each be given a 2-page worksheet, consisting of a world map and an observation section. They will research three different natural events that have occurred (historical or recent) and then mark and label them on the world map. When they have marked the events on the map, they will complete the reverse side of the worksheet. To complete the activity, they will include the type of natural event, where and when it happened, and what kinds of changes to the landscape it caused.				
<b>Conclusion</b>	Students will conclude through class or small group discussion. Each student will share one of the events they researched and explain how it changed the surrounding landscapes. Students should be encouraged to compare their answers and share other changes that these events could potentially cause.				

**Mark and label three natural events (earthquake, hurricane, volcano, etc.) that have happened in the world. They can be current events or things that happened in the past. When you are done, record your research on the next page.**

Name: \_\_\_\_\_



Name: \_\_\_\_\_

# Changing Landscapes

Our world is constantly changing. Every part of the Earth is a little bit different now than it was yesterday. Sometimes the changes can be big and sometimes they are so small we don't even notice them.

Using the three natural events you labeled on the map, fill out what you discovered below.

**E.g.:**    **Type of Event** – Tsunami  
                  **Location and Date** – Lituya Bay, July 1958  
**Changes to Landscape** – Wave washed away soil, knocked over trees, destroyed a bridge.

**1) Type of Event** – \_\_\_\_\_  
**Location and Date** – \_\_\_\_\_  
**Changes to Landscape** – \_\_\_\_\_

**2) Type of Event** – \_\_\_\_\_  
**Location and Date** – \_\_\_\_\_  
**Changes to Landscape** – \_\_\_\_\_

**3) Type of Event** – \_\_\_\_\_  
**Location and Date** – \_\_\_\_\_  
**Changes to Landscape** – \_\_\_\_\_