![C:\Users\asduser\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\7ERICXWX\MC900329243[1].wmf]()Now that you know about Seafloor Spreading, Mantle Plumes, and Oceanic Trenches, you can answer the following questions based on this diagram. Each triangle represents a volcano produced by a mantle plume.

Oceanic Trench

Mid-Ocean Ridge

**Leo**

**Arthur**

**Arnold**

1. What process is happening at the Mid-Ocean Ridge?
2. What process is happening at the Oceanic Trench?
3. Which volcano is the oldest?
4. Which volcano is the youngest?
5. Which direction is the tectonic plate moving?
6. Draw a triangle where you would expect to see a new volcano appear.

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How the Earth was made: Hawaii

**Video Notes**

Where are the Hawaiian Islands?

|  |  |
| --- | --- |
| **Evidence of Hawaii’s History** | **What the evidence tells us:** |
| Large amounts of Sulfur Dioxide gas have been recorded from Hawaii’s volcano |  |
| Subway-like tunnel under the surface of Hawaii |  |
| Large, extinct volcanic peaks on the big island |  |
| Plant life increases the farther the islands are from the active volcano |  |
| Seamounts and the islands make a straight shape across the ocean |  |
| Olivine mineral found within volcanic rocks |  |

Draw a cross-section picture of the Earth that shows how a hot spot (mantle plume) creates island chains:

Why are the Hawaiian Islands disappearing?