

EARTH AND LIFE SCIENCE LABORATORY ACTIVITY SHEET
Lesson 6 Build

Name: _____

Grade and Section: _____

For this lesson's *Build* activity, you will be interpreting maps showing the risk of exposure from the various types of volcanic hazards associated with Mount Mayon, the Philippines' most active volcano.

Procedure:

1. Through an internet browser on your desktop or laptop computer, visit the page *Volcano Hazard Maps and Summary of Prone Barangays* using the following URL:

<https://www.phivolcs.dost.gov.ph/index.php/volcano-hazard/gisweb-volcano-hazard-maps>

These maps were produced by the Philippine Institute of Volcanology and Seismology (PHIVOLCS).

2. Scroll and search for *Mayon Hazard Maps*. Once you have downloaded all maps, use the zoom feature on your computer or smartphone to inspect the details of the map more closely, then identify the following:

3. Suppose you lived in the town of Guinobatan. What would be the severity of the ashfall that you are expected to experience if you lived in the following barangays:

Barangay	Low hazard	Moderate hazard	Heavy hazard
Bubulusan			
Quitago			
Agpay			
Muladbucad Pequeño			
Masarawag			

4. Suppose you lived in the town of Malinao. What would be the severity of the ashfall that you are expected to experience if you lived in the following barangays:

Barangay	Low hazard	Moderate hazard	Heavy hazard
Bagatangki			
Estancia			
Diaro			
Comun			
Tawang			

5. Tick the cell of the corresponding hazard that the particular barangay is at *high* risk of being exposed to:

Town	Barangay	Ashfall	Lava	Pyroclastic flow
Malilipot	San Roque			

Camalig	Tagaytay			
Daraga	Miisi			
Guinobatan	San Rafael			
Polangui	Danao			

6. What volcanic hazard can cut road access between Legazpi City and the town of Sto. Domingo?

7. In which of the following barangays is it safe to build houses, that is, outside the Permanent Danger Zone (PDZ)? If it is unsafe, what life-threatening hazard is present in the area?

Town/City	Barangay	Safe	Unsafe	Hazard present that makes it unsafe for habitation
Legazpi	Padang			
Legazpi	Rawis			
Ligao	Amtic			
Bacacay	Hindi			
Tabaco	Buang			

8. Lahar is a type of flow that forms when water mixes with volcanic ash or tephra. Which of the barangays listed in Question No. 7 is also likely to be prone to lahars? Explain.
