

EARTH AND LIFE SCIENCE LABORATORY ACTIVITY SHEET
Lesson 8 Build

Name: _____

Grade and Section: _____

For this lesson's *Build* activity, you will be interpreting a geologic map of Panay Island.

Procedure:

1. Through an internet browser on your desktop or laptop computer, visit the page *Geology of Panay Island* using the following URL:

<https://esdac.jrc.ec.europa.eu/content/geology-panay-island>

2. Once you have downloaded the map, use the zoom feature on your computer or smartphone to inspect the details of the map more closely.

3. Look at the legend of the map particularly the legend that corresponds to the "Central Basin." Use the legend in the map to fill in the table below:

Age	Color	Geologic unit name
		Alluvium
Pleistocene		
		Miagao Clay
Upper Miocene		
		Central Basin Sandstone
Oligocene		Bayuso Volcanics

You may use colored pencils or crayons to color the boxes that correspond to each geologic unit in the legend (and in the map).

4. Find the town of Barotac Nuevo on the map. Once you find it, you are in the vicinity of the Central Basin region of the island.

5. What geologic unit underlies the following locations:

- Paripari Mountains in the town of Banate? _____
- The town of Cabatuan _____
- Talaba Mountain, Dumalao _____

6. List the geologic units found in the town of Dumalag:

- | | |
|------------|-----------|
| i. _____ | iv. _____ |
| ii. _____ | v. _____ |
| iii. _____ | vi. _____ |

7. How old are the geologic units that underlie the following locations? Do they match the age of the geologic unit that underlies Mt. Mapanag in Western Lambunao?

Location	Age	Same age as unit underlying Mt. Mapanag?
Mt. Saligit, Barotac Nuevo		
Passi		
Leon		
Cuartero		

8. What is the map length of the scale bar on the lower right of the map (in millimeters)?

9. What is the scale factor for this map? _____

10. What is the map length distance (in millimeters) between the geologic unit N3LS in New Lucena and the N3LS unit in Southern Barotac Nuevo? _____

11. What is the real-life straight-line distance (in kilometers) between the geologic unit N3LS in New Lucena and the N3LS unit in Southern Barotac Nuevo? _____