

It's time to prepare your very own

MYSTERY ISLAND!

Name: _____ Date: _____ Section: _____

For this assignment you will demonstrate your ability to use the skills you have learned in this unit by creating a topographic map of an island from a series of written instructions.

You will draw the map on an 8^{1/2} x 11 inch sheet of blank paper using the following instructions. It is suggested that you begin by reading through ALL instructions and by doing a rough copy in pencil. You may work with a partner on the rough draft. Complete a final copy for evaluation. Be sure to check each instruction box when complete.

Instructions:

1. Use a scale of 1:1,000,000.
2. Record the scale on the map along with a compass rose and bearings (include the ordinal points).
3. Your island can be a maximum length, North to South of 200 km. This is _____ cm in length.
4. Your island can be a maximum width, East to West, of 100 km, This is _____ cm in length.
5. In pencil, mark a box on the map that will show the maximum dimensions for your island. DO NOT draw the actual island shape yet, you are going to get more information.
6. A mountain in the northern part of the island is 785 m high (spot height elevation). There is a steep slope on the north west side. Think about how your contour lines will appear?
7. There is a large lake in the middle of the island from which a river flows to the east coast. Water areas should be coloured in blue.
8. A town is on the east coast, and a second town that is a major shipping port is on the west coast. (Remember that shipping ports are usually found in protected U-shaped harbours). Town outline areas should be coloured in pink.
9. A navigation light is prominent on a point of land near the town on the west coast to guide ships. How would this landform feature resemble?

10. The towns are joined by a double track railroad, including by winding highway number 95.
11. The south eastern coast is partly swampy and contains a gentle slope.
12. Once the rough locations are done, complete the topography of the island by following these guidelines.
 - a. The highest elevation of the southern portion of the island is 525m.
 - b. Elevations that are lower than 200 m are coloured green. Elevations between 200m and 400 m should be coloured brown or yellow, while elevations over 400 metres should be either grey or white. You will need to create a few contour lines. Refer to your contour line lesson notes.
13. There is also an **Alphanumeric Grid** with A-D on the vertical and 1-2 on the horizontal. Located in B2 is an orchard beside the river and located in D1 is gravel pit at an elevation of 250 m.
14. Name and label ALL the communities and the physical features on your map.
15. Provide a legend for your map that will contain the 3 types of scale and map symbols in colour. Remember to also provide an appropriate title to your map (need not be Mystery Island!).

Name: _____

Evaluation: _____

<i>Criteria</i>	<i>Degree of Completion</i>	<i>Score</i>
Knowledge/ Understanding <input type="checkbox"/> Scale and accuracy; 1:2 Ratio and compass are correct <input type="checkbox"/> Contours demonstrate an understanding of how they represent landforms in reality <input type="checkbox"/> Symbols and colours used are correct and appropriate	1 2 3 4 5 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10	
Communication <input type="checkbox"/> Labels are presented neatly and are error free; colours are provided for all places and natural features <input type="checkbox"/> Legend clearly communicates the maps content <input type="checkbox"/> A title is included	1 2 3 4 5 1 2 3 4 5 6 7 8 9 10 1 2 3	
Application <input type="checkbox"/> All island criteria is present; and instructions were followed correctly <input type="checkbox"/> Colour is applied accurately by height <input type="checkbox"/> Effort and class time used wisely	1 2 3 4 5 6 ... 18 19 20 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7	
		Total: /80

Comments: