

Bird Data Map Write-up

Name _____

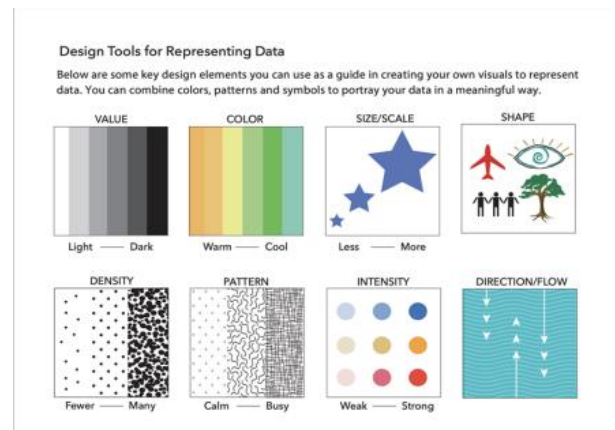
Directions: Please answer the following questions about your experiences with the data map. Use complete sentences for each question. This is a graded assignment and each question is worth points.

The Original Map

1. What was the full name of the map that you redesigned?
2. What data does the original map show all over the world? Do not describe the legend or mention any specific places.
3. What design tool was used to show the data in the original map you received?

Your Map Redesign

4. What design tool did you use to recreate the map?
Remember that color was not permitted.



5. Recreate the entire legend that you designed here. Double-click the box below to open the drawing and make edits. Include images of each part of the data. Don't forget to label what data each design represents.

Legend:

Comparison of Multiple Maps

Directions: Stack two traced maps on top of the Threatened Birds paper map. One traced map has to be the map you made. There should be one Surface Temperature map & one Population Density map.

6. The map on top: _____ by _____

**Insert here a picture of the map made by this person.*

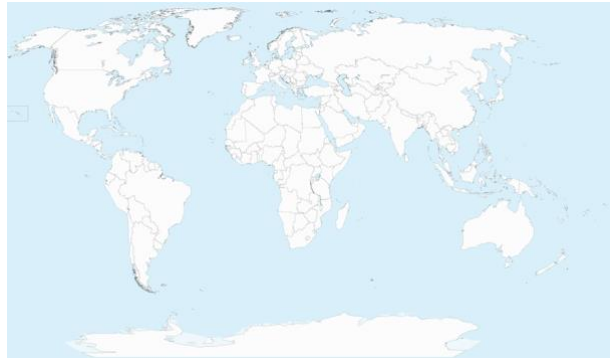
7. The map in the middle: _____ by _____

**Insert here a picture of the map made by this person.*

*The Threatened Birds map should be on the bottom.

8. Find an area on the map where you see data shown in **red** or **orange** on the Birds map. Double-click the map below and move the red circle to that area on *this* map.

1. To move the red circle to the



For questions 9-11, first identify what specific design is shown in the circled area on the map. (For example, if it's color, in the circle is it white, pink, red, blue, etc?) Then, use the map's legend and say what that particular design indicates about the data for that area.

9. Surface Temperature

- What design does the map show in the circled area?
- What does the map's legend tell you that this design means about Surface Temperature in this area?

10. Population Density

- What design does the map show in the circled area?
- What does the map's legend tell you that this design means about Population Density in this area?

11. Threatened Birds

- What design does the map show in the circled area?

- b. What does the map's legend tell you that this design means about Threatened Birds in this area?

Apply Meanings from the Maps

Directions: Now you will use what you observe on the maps as well as what we're learning about how the characteristics of habitats affect animals. You will brainstorm hypotheses, select one that you think is most likely and then incorporate info from your notes to write a complete hypothesis.

Use the ideas you used in the part before this to complete the questions that follow.

12. Insert into the spaces below the meanings from the different maps. You can copy and paste from the previous question, but be sure to read over the sentence and edit so it makes sense when read.

- A) If insert what Surface Temperature map means, then insert what Threatened Birds map means.
- B) If insert what Population Density map means, then insert what Threatened Birds map means.

13. Based on what you see on your maps and what we have learned in class, which of the hypotheses listed above is more likely to be true? Type an **X** in front of the hypothesis above (you can copy and paste this: **X**.)

14. Now we will look at some of the background information that will help us complete the hypothesis. For this question, describe what a habitat is and the five abiotic factors that we have learned about. For each abiotic factor, provide one specific detail about its importance from your notes.

15. Now you will take a specific idea from the previous question and use it in the **...because...** portion of your hypothesis. Copy the complete hypothesis here using the **If...then...because...** format. When writing the **...because...** portion, be sure that the reason you give is taken from your notes and is directly connected to the way that temperature or cities affect a bird's habitat, depending on which you used from question 1 above.

Extension

16. Now spend a little time briefly researching a way people are working to help birds affected by urbanization or increasing temperatures. Search on [Audubon](#), [WWF](#) or google. Describe the ideas here.

- a. Website URL (copy here):
- b. Description of what is being done. (1-2 sentences)
- c. How will it help birds? Optional: You can include a labeled image as part of your answer. (1-2 sentences)

