

Response Summary:

Refine Worksheet

Goal: Generate/produce new and/or improved visualizations from the Filter & Represent Worksheet

Objectives: Students will apply suggestions from Critique 1 to improve the visualization

Outcomes: Improved visualizations that provide insight

1. Student Information *

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Term (e.g. F2019)	F2021

2. Email Address *

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3. Visualization Assignment *

- In-class Assignment

4. How many questions have refined views?

- Two

5. Question 1

What is the average amount of earthquakes that occur each year?

6. Question 2

What is the average magnitude of these earthquakes?

Question 1: *

What is the average amount of earthquakes that occur each year?

Create

8. Refined Figure 1 for Question 1: provide a revised version of Figure 1 that answers Question 1 from the MINE worksheet. Include a Figure caption and follow the Data Visualization Check List and Best Practices for creating visualization. *

[\[Click here\]](#)

9. In the space below, list the changes made to Figure 1

Previously, this chart was a dot plot accounting for each individual earthquake that occurred since 2000. In my revised version, I created a line plot to make the data easier to read and the question easier to answer.

10. Refined Figure 2 for Question 1: provide a revised version of Figure 1 that answers Question 1 from the MINE worksheet. Include a Figure caption and follow the Data Visualization Check List and Best Practices for creating visualization. *

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11. In the space below, list the changes made to Figure 2

In my previous version, this chart was labeled incorrectly and the axes were off. In my revised version, I made the axes more proportional and minimized the labeling to add more focus to the actual data itself.

Question 2: *

What is the average magnitude of these earthquakes?

Create

12. Refined Figure 1 for Question 2: provide a revised version of Figure 1 that answers Question 1 from the MINE worksheet. Include a Figure caption and follow the Data Visualization Check List and Best Practices for creating visualization. *

[\[Click here\]](#)

13. In the space below, list the changes made to Figure 1

Previously, this was a hectic dot plot that did not make it easy for me to answer my question. There was a lot of unnecessary data. In the revised version, I took the average magnitude for each year and created a line plot to make it easier to see the trend.

14. Refined Figure 2 for Question 2: provide a revised version of Figure 1 that answers Question 1 from the MINE worksheet. Include a Figure caption and follow the Data Visualization Check List and Best Practices for creating visualization. *

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15. In the space below, list the changes made to Figure 2

In the revised version, there are no longer unnecessary labels on the axes and the graph is drawn much cleaner as well.
