

Name(s):

Date:

Purposeful Packaging Data Analysis

Enter the results of the **Materials Use Survey** for your class into the table below. Use a separate piece of paper to create additional charts if needed.

Total Number of Respondents _____ (How many people took the survey?)

Frequency of Use for Materials

How many times per month do your classmates use these materials?

1. Enter the names of the materials from the Materials Use Survey.
2. Add up the total times per month that all respondents would use the item.
3. Calculate the average by dividing the total by the number of respondents.
4. In the last column, check if the material was used in your team's design.
5. Highlight or circle the materials with the highest average number.

| | Name of Material | Total Times per Month <i>(For ALL respondents)</i> | Average # of Times per Month | Our Design <i>(Check if the material was in your team's design)</i> |
|---|-----------------------------------|--|-------------------------------------|---|
| Baseline (Traditional Packaging) | Packing Peanuts/Bubble Wrap, etc. | | | |
| Material 1 | | | | |
| Material 2 | | | | |
| Material 3 | | | | |
| Material 4 | | | | |
| Material 5 | | | | |
| Material 6 | | | | |
| Material 7 | | | | |
| Material 8 | | | | |
| Material 9 | | | | |
| Material 10 | | | | |

Chart

How can you visually represent the information you need to improve your design?

1. Use a chart to visually represent the data for your design. Choose the format that will best represent your data (line graph, bar graph, etc). Use a separate piece of paper to create additional charts if needed.
2. Consider how your materials compare with the averages for some of the higher use items.

Analysis

Based on your survey data, does this design meet the criteria for being something consumers want or need. Explain why or why not.

What patterns do you see when looking at data? Which types of materials are more likely to be useful to a wide range of people?

What would you want to do next to improve on your design?

- Draw and label all characteristics of the design that meet the criteria
- Explain how the survey influenced your choices

| | |
|-------|----------|
| Draw: | Explain: |
|-------|----------|