Lab: What's Most Popular?

Directions: You will conduct an investigation to determine the popularity of certain items with your classmates. Choose one of the following categories or choose your own to survey the class. **Write all answer in blue font.**

- **Brand of shoes**: pick at least 5 brands of shoes to survey.
- **Candy bars:** pick at least 5 kinds of candy bars to survey.
- **Music style:** pick at least 5 kinds of music to survey.
- Something of your choice: must have at least 5 choices to survey. Some possible options: Social Media Platforms, Ice Cream Flavors, Pizza Toppings, Pet Animal, Subject in School, Holiday, Movie Genre, Fast Food Restaurants, etc. Stay away from topics that not all students may use like favorite video game (not all people play video games), Favorite Song (way too many possibilities), favorite YouTuber (not all watch specific YouTubers), or any other option that is too specific or has too many different options.

Question: Which (Insert your topic) is most popular in (period #) period science (you will answer this in your hypothesis).

Hypothesis: Write which choice you think will be most popular and why. (Insert hypothesis here)

Procedure:
   a. Choose the topic in which you would like to test from above and create your choices.
   b. Write your question above.
   c. Create your hypothesis above (what choice will be most popular **and why**?).
   d. Fill in the topic choices in your data table below.
   e. Survey at least 20 different people in class to get their responses to your question and record their responses in the data table below.
   f. Put your results into a bar graph using the instructions below.
   g. Write your conclusion below (use CER format, Claim, Evidence, Reasoning).
   h. Complete the Analysis below.

Data Table:

Choices ☐						
Number of students						

Conclusion: Use CER format to explain what you learned.

Claim: What you think you learned after completing this lab.	
Evidence: What your data shows	
Reasoning: Explain how your data proves your claim (put	

your Claim and Evidence together).	

Analysis: Explain how this investigation could have been done differently to be more accurate (where might there have been errors and how could you fix it so those errors don't happen again?): (insert analysis here)

Graph:

Use the following link to help you make a graph, then copy and paste that graph into your lab.

Anything in RED font copy right into the website. Anything in BLUE font you will have to enter your own data from your lab.

2. https://www.rapidtables.com/tools/bar-graph.html

3. Graph Title = Most Popular (your topic) in # Period Science.

4. Horizontal Label = Your Topic (Brands of Shoes, Types of Music, Pizza Toppings, whatever you chose).

5. Vertical Label = Number of People

6. Horizontal Data Type = Data Labels

7. Data Labels = Your choices

8. Number of Lines = 1 Bar

9. Bar 1 Data Values = Number of students for each category in the same order you wrote them in Data Labels section (separate number with a space, no comma)

10. Click Draw to make your graph.

11. Click Copy Graph

12. Paste Graph into this lab