



Name \_\_\_\_\_



## Bubble Tube Data Analysis & Conclusions

**SAFETY:** Use care handling the tubes; they will break!

**Background Information:** Graphs of data can provide much useful information. They show us trends, patterns, and relationships between variables. Bar graphs allow scientists to compare data, line graphs show trends - especially over time, and scatter plots show correlations between variables.

After the data have been analyzed, a **CONCLUSION** is written. A conclusion is a written answer to the question. Sometimes the answer is "I don't know."

Whatever conclusion is drawn it is **always, always** supported by actual data from the experiment. An answer without evidence is meaningless.

### Data Analysis:

Graph this data using a line graph. Remember TAILS & DRY MIX.

1. Make a line graph. Why? \_\_\_\_\_
2. Graph your data from the red tube. Use a red map pencil.
  - a. Plot the times on the X-axis. Why? \_\_\_\_\_
  - b. Plot the distance on the Y-axis. Why? \_\_\_\_\_
  - c. Connect the dots with the map pencil.
3. Graph your data from the blue tube on the same graph. Use a blue map pencil.
4. Graph your data from the green tube on the same graph. Use a green map pencil.





