TUBES OF JOY!

Objectives:

- To create a position vs. time graph showing the motion of a bubble as it rose through a masked tube of joy.
- To determine the speed of a bubble as it rose through a masked tube of joy.
- To predict the starting position of a bubble in a masked tube of joy (did the bubble start at the bottom of the tube or somewhere else?).
- To compare and contrast position vs. time graphs of tubes of joy with different colors.

What should I consider while designing my investigation?

- Should I have multiple trials?
- Should all the graphs in the class be consistent (have the same size)?
- What are my variables (independent, dependent, others to control)?

Outcomes

- A position vs. time graph showing the motion of a bubble as it rose through a tube of joy. Please remember to designate which color tube you used.
- The speed of a bubble as it rose through a tube of joy. You must show how you determined the speed.
- Prediction/justification of the bubble's starting position in your masked tube of joy.
- In a paragraph that compares and contrasts position vs. time graphs of tubes of joy with different colors. You will have to look at other graphs (various groups) to answer some of the questions below.
    - Did all the same color tubes have the same slope?
    - What does a steeper or gentler slope show?
    - What is the significance of the y-intercept?
    - Did all the graphs start at (0, 0)?
    - Other . . .