

TUBES OF JOY!!



# Objectives:

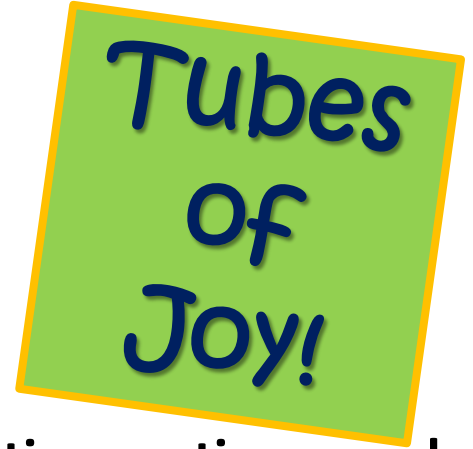
- To create a position vs. time graph showing the motion of a bubble.
- To determine the speed of a bubble as it rose through the tube.

## You will:

**Collect data (data table)**  
**Create a position vs time graph**  
**Create a motion map**  
**Write a conclusion**

# You should have:

- Data Table
- Position vs. Time Graph
- Conclusion
  - 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 color tubes have the same slope?
    - What does a steeper or gentler slope show?
    - What is the y-intercept of your graph? Need help come see me.
    - What is the significance of the y-intercept?
    - Did all the graphs start at  $(0, 0)$ ?
    - Other . . .



**Finished? Pick up Practice & Hawaii**

**HAWAII is homework  
on front table**