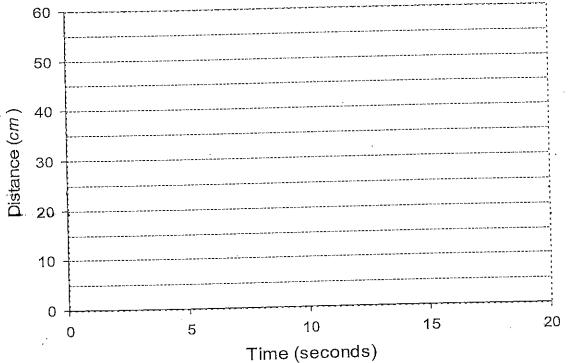
Speed of the Bubble Experimen
Results and Questions

Name	
Period	Date

Tube Color:	
Time (s)	Distance (cm)

Tube Color:	
Time (s)	Distance (cm)

Tube Color:	,
Time (s)	Distance (cm)



Questions:

- 1. How far did the bubble in the green tube travel in 6.5 seconds? ______ (To answer this, find the point on the best-fit line that is exactly above the 6.5 second mark on the bottom of the graph. Then trace horizontally to the left side to find the distance.)
- 2. How far did the bubble in the red tube travel in 6.5 seconds?
- 3. How far did the bubble in the blue tube travel in 6.5 seconds?
- 4. In which tube was the bubble the fastest? _
- 5. Which tube had the steepest best-fit line?
- 6. Is there a connection between your answers to questions 4 and 5?

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In the field of math, we often use the word "slo something is. Slope is defined as <i>Rise</i> divided be horizontal measurement.			
7. Find the slope of the graphed line from the red (a) Mark two points on the line, and label and far apart. Try to choose points to measurements. Fill in the blanks for the Point "A" corresponds to a distance of Point "B" corresponds to a distance of	them "A" and "B." The potential make it easy to rethe points you have chosen:	ead the distance and ti	ine, ime
(b) Rise is the vertical distance between A Use your answers from part (a) above Rise =	and B. Run is the horizont to calculate the Rise and Ru	al distance.	
Run =minus (Did you remember to include units of (c) Now calculate the slope: Slope = Rise divided by Run =	f measurement in your work	above?)	
(Remember to include units of measur	rement)	. •	
9. Follow the steps for #/ above to find the slope	of the graphed line for the b	đue tube.	
10. In the calculations above, you divided rise by "Distance divided by time" is the formula for		e, and the run was a tr	me
The slope of a distance vs. time graph is the	of the moving of	bject.	•
11. Imagine an object that traveled at a steady sp motionless for a while. Sketch the shape of gr	raph that would result.		
12. Imagine an object that goes faster and faster graph that would result.	as it travels. Sketch of the	shape of	出
13. What feature of the graphs from this experir at constant speeds?	nent shows that the bubbles	traveled	