

AP Physics Lab Handout 19 "Speed of Sound / Determining Frequency"

Your Name: _____ Lab Partners: _____

Purpose: To determine how fast sound travels and to determine frequency of tuning forks.

Materials:

meter stick cardboard tube computer
 microphone Lab Pro tuning forks

Procedure:

Data:

Length of tube (meters): _____

Trial	Time of first peak (s)	Time of Echo Peak (s)	Change in Time (s)	Speed (m/s)
1				
2				
3				
4				
5				
			Average Speed	

Tuning fork	Time of first peak (s)	Time of Last Peak (s)	Change in Time (s)	Number of cycles	Frequency (Hz) (Cycles/time)

Observations:

Error Analysis:

Conclusion: