	ASU University Physics La	abs - Mechanics Lab 12 p. 1
Name:	Section #: _	Date:
Speed of Sou	nd - Resonance Tu	ıbe
Prediction		
Explain how will you define the point of res	sonance in this lab experim	nent.
Run the experiment. Enter all the values in	n the Inlab in WebAssign t	o check the results.
Data Analysis. Calculations.		
Show all your work (equations and calculated each part of the Inlab.	ulations) that you did to g	get the answers submitted in
Calculate the theoretical speed of sound in	air at temperature T .	

Tuning Fork A
Calculate the wavelength of the sound wave and the error in wavelength measurement.
Calculate the experimental speed of sound and the error in the speed of sound measurement.
Tuning Foult D
Tuning Fork B Calculate the wavelength of the sound wave.
Calculate the average wavelength of the sound wave.

Calculate the experimental speed of sound.
Calculate the average experimental speed of sound using the values of speed received for tuning fork A and tuning fork B.
For tuning fork B, predict where the resonance given in your inlab will be found. Show your calculation below. Run the experiment to check your prediction.
Have your TA sign this worksheet below and then upload it to the Inlab.
TA Signature: