

# Speed of Sound Activity

Frequency of tuning fork used \_\_\_\_\_

Resonance pts	Distance from source (cm)	Distance from source (m)	Calculated wavelength (m)	Calculated speed of sound (m/s)
$1/4 \lambda$				
$3/4 \lambda$				
$5/4 \lambda$				

Calculations for wavelength and speed of sound at each resonance pt:

Average value of speed of sound \_\_\_\_\_

Temp \_\_\_\_\_

Theoretical value of speed of sound based on the temperature \_\_\_\_\_

Calculation:

% Error \_\_\_\_\_

Calculation:

Write an abstract for this experiment. See notes online.