

## VELOCITY OF SOUND - RESONANCE TUBE

### Aim:

The aim of this experiment is to use the resonance of an air column in a tube to find the speed of sound in air.

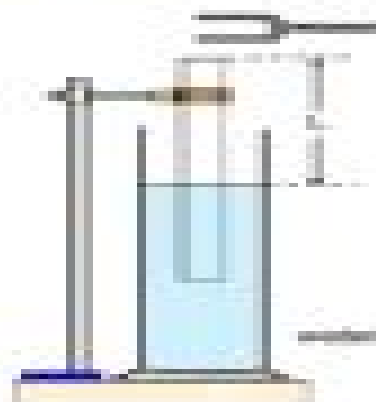
### YOU WILL NEED:

A 1 litre measuring cylinder, a glass, plastic or metal tube with a diameter of about 2-3 cm, a ruler, a set of tuning forks, a retort stand, base and clamp, thermometer, a large rubber bung or a wood block.

### WHAT TO DO:

Set up the apparatus as shown. Strike a tuning fork on the rubber bung. HOLD THE BENCH and hold it over the end of tube T.

Move the tube up and down until a resonance position is obtained. Measure the length (L) of the tube above the water.



Repeat the procedure with other tuning forks. For each resonance measure the length (L) of the open end of T above the water. For each length L find the wavelength ( $\lambda = 4L$ ).

### ANALYSIS AND CONCLUSIONS:

Plot a graph of  $f$  against  $1/L$ . The gradient of your graph ( $\Delta f/\Delta 1/L$ ) =  $v/4$ . Calculate the velocity of sound ( $v$ ).

The velocity is related to the fundamental resonant frequency ( $f$ ) by the equation:

$$\text{Velocity} = 4Lf$$

An alternative method is to find the second resonance length ( $L_2$ ) for each frequency.

$$L_2 - L_1 = \lambda/2 = v/2f$$

This eliminates end corrections.

The thermometer should be used to record the temperature of the air in the tube since the velocity of sound in air varies with the air temperature.

# Lab Report Resonance Sound Speed

**Guillaume Favre**



## **Lab Report Resonance Sound Speed:**

## **Lab Report Resonance Sound Speed** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Lab Report Resonance Sound Speed**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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