

Prelab Questions

These questions need to be completed before entering the lab. Please show all workings.

Marker's Initials

Prelab 1

What information is contained in the FFT graph?

Prelab 2

What do you expect for the shape of a frequency vs harmonic number graph for a tube open at both ends? Explain.

STAPLE YOUR PRE-LAB TO THIS PAGE

Name and Student Number: _____

Date: _____

Partner: _____

Table 1:

	Value	Units
Time for 5 oscillations		
Period		
Frequency		

You may use this space for workings.

QUESTION 1:

a)

b)

c)

QUESTION 2:**QUESTION 3:**

a)

b)

c)

Table 2:

	Value	Uncertainty	Units
Length			

Table 3: Resonant frequencies for tube open at both ends

n	f (Hz)

Table 4: Note: Print a copy of f vs n graph for two ends open with correct format.

	Value	Uncertainty	Units
Slope			
Intercept			



Staple graph to opposing page

QUESTION 4:

QUESTION 5:

Table 5:

	Value (Units)	Uncertainty (Units)
Room Temperature		

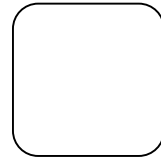
QUESTION 6:**QUESTION 7:**

Table 6: Resonant frequencies for tube closed at one end

n	f (Hz)

CHECKPOINT:

FFT of both data sets and frequency information.

**QUESTION 8:****QUESTION 9:**