

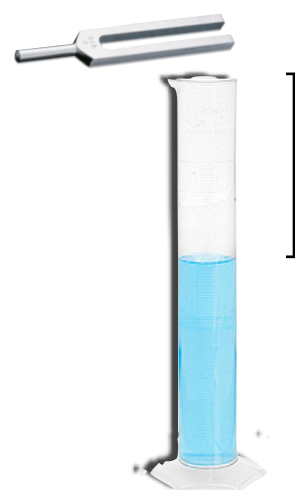
**things to remember
about..**

Experiments and Demos

What was this equation for? What units?

$$v_{\text{sound}} = 331.4 + (0.6 \cdot T_c)$$

Frequency (Hz)	Length of air column (cm)	Corrected Length (m)	Wavelength (m)	Speed (m/s)
460	17	0.185		
320	25	0.265		
Temperature : 18° Accepted Speed			Average	
			% Error	%



Harmonic	Length of 1 "bump"	Period	f	λ	v
	97.1 cm		18.1 Hz		
	65.0 cm		26.8 Hz		
	48.4 cm		36.0 Hz		
Average Velocity					

Complete All tables and blanks, this counts. Bring it with you to the test, this will help you.

HARMONIC MOTION - WAVE - MEDIUM - PULSE -
 TRAVELING WAVE - STANDING WAVE - REFLECTED PULSE
 FIXED END - FREE BARRIER - NODES - ANTINODES -
 PERIOD - FREQUENCY - HERTZ - CREST - TROUGH
 AMPLITUDE - WAVELENGTH - WAVE SPEED - VELOCITY
 TRANSVERSE WAVES - LONGITUDINAL WAVES -
 PRINCIPLE OF SUPERPOSITION - RESONANCE - BEAT
 FREQUENCY

**things to remember
about..**

Waves



Pick at least 5 terms you may need to know	Your Definition or things to know

What does each part of this equation mean? What units?

$$v = f\lambda$$

things to remember about..

Harmonics

complete the drawing	Which Harmonic	Which Overtone	To Find the Wavelength..
			
			
			
			
			
			
			
			
			



things to remember about..

Doppler



What does each part of this equation mean? What units?

$$f_o = f_s \left(\frac{v \pm v_o}{v \pm v_s} \right)$$

How many times louder is 99 dB than 42 dB?

Step 1	
Step 2	
Step 3	
Answer	

things to remember about..

Decibels



What decibel level is 2014 times softer than 100 dB?

Step 1	
Step 2	
Step 3	
Answer	

Complete All tables and blanks, this counts. Bring it with you to the test, this will help you.