Lesson 4.2 – Sound

0	waves of pressure that stimulate our ear drums The speed of sound depends on its (more dense		$\begin{array}{cccccccccccccccccccccccccccccccccccc$						
	Pitch is determined by		,						
	Volume is determined b	ру	λ _{min} : m	λ_{max} : m					
The Doppler Effect									
Imagine a water bug standing on Now imagine that bug skimming along the surface of the pond.									
the surface of a pond, bouncing up and down.		The waves in back:		The waves in front:					

	Speed of Sound Activity
<u>Purpose</u> :	

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Calculations:

- 1) Calculate our measured speed of sound.
- 2) The actual speed of sound can be found from the formula: $V_{sound} = 331.4 + 0.6T$ where T is the temperature in degrees Celcius. Find the actual speed of sound based on today's forecasted temperature.
- 3) Calculate the percentage difference between our measured value and the actual value for the speed of sound.
- 4) There are many possible sources of error associated with this lab. Which do you think are substantial, and which do you think are negligible?