Sound Lab using LabPro

	Name:				
Get a Lal	oPro and microph	one, and then co	onnect to a compute	r. Setup the Sens	or through the
Experime	nt tab if necessary.		_	_	
			prophone and hit Coll oude it with your report		graph that you
a)	Would you say th	is is a periodic wa	ive? Support your ans	swer with characteri	stics.
b)	How many waves	are shown in this	sample? Explain hov	w you determined th	nis number.
c)	_	-	ed data to something ail's pace." Or "Scien		-
	the window."	pubber by at a bir	mi o putti.	v.u.ss 2225 c.j us	Tase as a jee sy
1)	XXII	1 6.1	F 1:1		
d)	w nat is the period	Period	Explain how you determined Frequency	Wavelength	\neg
		(s)	(Hz)	(m)	

Person 1 Hum

e)	What is the frequency of these waves? Explain how you determined the frequency.
f)	Calculate the wavelength assuming the speed of sound to be 340 m/s. Relate the length of the sound wave to something in the class room.
g)	What is the amplitude of these waves? Explain how you determined amplitude.
h)	What would be different about the graph if the sample were 10 times as long? How would your answers for the questions a-g change? Explain your thinking.
i)	What would be different about the graph if you change the sample rate? Test your ideas. Copy the graph and label it #1i).
label it #2 example: of	ave someone else in your group say "AAAAAA" into the microphone. Copy the graph and . Compare and contrast the two people's wave patterns. Be specific in your answer. For determine the characteristics that you did for the first person (# of waves, frequency, period, and wavelength) and include any qualitative observations.

3. Collect data for your straw instrument. Copy the graph and label it #3. Compare and contrast the waves made by human voice.
4. If you use the same straw instrument to collect data for a louder sound, what changes would you expect on the display from the sample in #3?
a. Test your ideas. Copy the graph and label it #4.b. What did you do to make the sound louder? Compare and contrast the waves collected for
the softer sound to those collected for the louder sound.