WAVES AND SOUND – WORKSHEET #	Name:
Read chapter 7.1 and 7.2 up to page 340. THEN answer the following questions. Figure 7.2 on page 329 shows two types of vibration. Fig A) shows a transverse vibration while B) shows a longitudinal vibration. Explain the difference between the two types. Where does the name come from?	
In the space below, draw a diagram of a transverse and longitudinal vibration. Label the Amplitude (A),	
the rest position, the axis of vibration , and indicate Transverse (eg, pendulum)	
Period and Frequency Define Period. Use words, give the formula and the units.	
Define Frequency. Again, use words as well as give the formula and units. What is 1 hertz?	

Practice: Answer questions one through four from page 331on an *attached* sheet of paper.

Now, using the formulas for period and frequency, or the answers to the questions from the text, **derive** a relationship between period and frequency. That is, find a formula for period with frequency in it or vice versa. Make sure you show how you got the formula.