Physical Science

Characteristics of waves Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Label the following parts of the wave: crest, trough, wavelength, amplitude
2. Describe what frequency of a wave means.
3. What does the period of a wave refer to?
4. Describe the Doppler effect.
5. What is the difference between a transverse and longitudinal wave?
6. What is the formula used to calculate wave speed?
7. If you are sitting on a dock and count 5 waves go past in 2 seconds, and you estimate the wavelength of these to be about 10m. What is the wave speed?
8. As you sit in a tube and bob up and down you notice 6 waves pass by every 3 second. The distance from crest to crest as you bob up and down is about 7m. What is the speed of the wave?
9. Describe how the type of medium effects the speed of a wave (solid, liquid,gas)