

Name: _____ Date: _____ Hour: _____

Wave Drawings

1. Using the information provided, measure and draw four waves in total. (2 transverse waves and 2 longitudinal waves)
2. Start by drawing a straight line 10 cm long to represent the rest position for each wave.
3. Measure and draw each wave using the given dimensions starting at 0 cm and ending at 10 cm.
4. Label the amplitude and wavelength of each wave. Also identify a crest, trough, compression, and rarefaction in the proper wave.
5. Finally determine the frequency of each wave. Make sure that you show your work! Assume the velocity of each wave is 10 m/s.

Transverse Waves:

Wave 1: Amplitude = 3 cm, Wavelength = 5 cm

Wave 2: Amplitude = 2 cm, Wavelength = 2 cm

Longitudinal Waves:

Wave 3: Amplitude = 2 cm, Wavelength = 3 cm

Wave 4: Amplitude = 2 cm, Wavelength = 7 cm