Mr. Renwick's Physics 11
Worksheet – Frequency and Amplitude

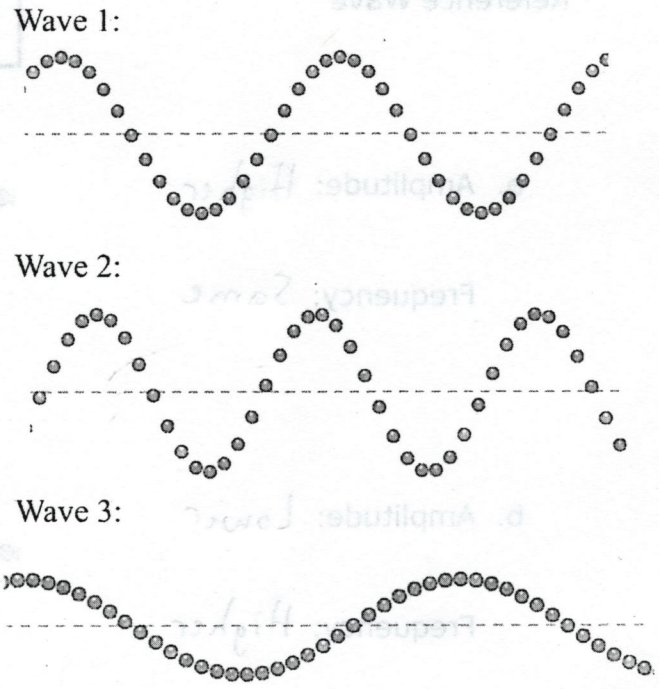
Name: _____
Block: _____

Learning Intention

- Learn about the frequency and amplitude of waves.

Questions

1. Use the 3 waveforms shown to the right to answer the following questions:



   a. How many wavelengths are in Wave 1?

      $2\frac{1}{8}$

   b. How many wavelengths are in Wave 2?

      $2\frac{5}{8}$

   c. How many wavelengths are in Wave 3?

      1.5

   d. Which wave is the highest frequency?

      Wave 2

   e. Which wave is the lowest frequency?

      Wave 3

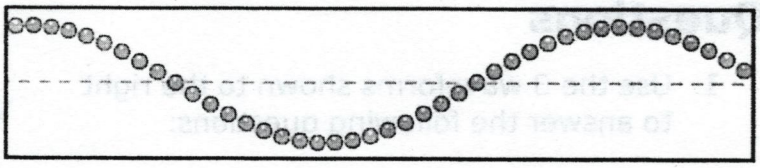
   f. How can you tell by looking at a graph if a wave is high frequency?

      A high frequency wave goes up and down a lot

See over →

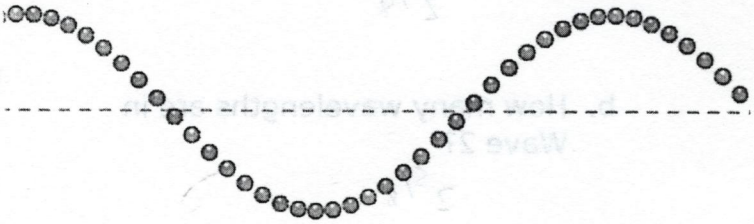
2. For each of the following questions, compare the wave's amplitude and frequency to the Reference Wave shown below. For each wave, say whether the amplitude is the same/lower/higher, and whether the frequency is the same/lower/higher.

Reference Wave



a. Amplitude: Higher

Frequency: Same

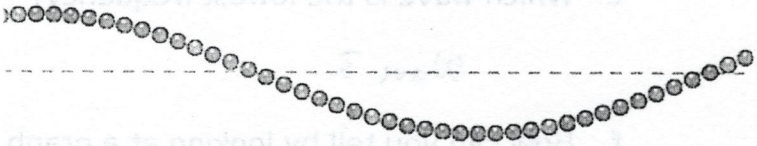


b. Amplitude: Lower

Frequency: Higher

c. Amplitude: Same

Frequency: Lower



d. Amplitude: Higher

Frequency: Higher