

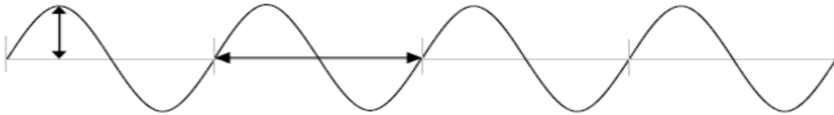
NAME:

PERIOD: A B E F G

Wave Worksheet

One full wave (cycle)

Wave train – two or more waves



Amplitude – measures the energy of a transverse wave

a) measured from the equilibrium position to the top of a crest or the bottom of a trough (see vertical arrow)

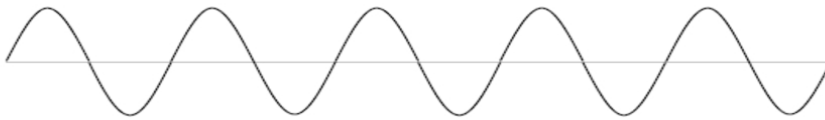
Wavelength – length of a single wave cycle (horizontal arrow double sided arrow)

Frequency – # of waves that pass a point in a given amount of time

Speed = wavelength x frequency

The time from the beginning to the end of the wave train in each situation is 1 second.

Wave 1



a) How many waves are there in this wave train? _____

b) Wavelength _____ cm c) Amplitude _____ cm d) frequency _____ Hz e) speed _____ cm/s

Wave 2



a) How many waves are there in this wave train? _____

b) Wavelength _____ cm c) Amplitude _____ cm d) frequency _____ Hz e.) speed _____ cm/s

Wave 3



a) How many waves are there in this wave train? _____

b) Wavelength _____ cm c) Amplitude _____ cm d) frequency _____ Hz e.) speed _____ cm/s