

Answer Key for 4.1: Properties of Waves

Reading Check 1: The rest position of the wave is where the water would be if it were still

Reading Check 2: How is the frequency of a wave measured? Frequency is measured in Hz (Hertz). It means cycles per second (i.e. number of wavelengths per second)

Features of a Wave:

1. Crest
2. Trough
3. Amplitude
4. Wavelength
5. Rest position
6. Amplitude is the height of the crest (or the depth of the trough)
7. Crest is the highest point of a wave
8. Trough is the lowest point of the wave
9. Wavelength: from crest to crest or trough to trough
10. Rest position: The rest position of the wave is where the water would be if it were still

Characteristics of Waves:

1. 4 meters
2. 2 meters
3. Wave B
4. Wave A (higher amplitude)
5. Amplitude
6. Y has the greater frequency (shorter wavelength)
7. X has the longer wave length (smaller frequency)

True or False:

1. False
2. True
3. F
4. F
5. T
6. F
7. F
8. T
9. F