

Kahoot Waves Review Quiz

1. A _____ is a unit of time it takes for one full wavelength to occur.
period frequency wavelength amplitude
2. A _____ is typically measured in meters and is inversely proportional to frequency.
period frequency wavelength amplitude
3. The _____ is found at the top of a wave.
trough period crest node
4. A _____ is measured in oscillations per second.
period frequency wavelength amplitude
5. A _____ is found at the equilibrium line.
trough antinode crest node
6. An ocean wave is a _____ wave because the wave motion and particle motion are perpendicular.
transverse longitudinal electromagnetic surface
7. According to the concept of superposition....
when two upright waves meet, they cancel when an upright and an inverse wave meet, they cancel
8. A ray of light goes from water ($n=1.33$) into quartz ($n=1.54$). Which medium is more dense?
water quartz
9. The _____ is found at the bottom of a wave.
trough period crest node
10. How fast is light moving through a medium with an index of refraction of 1.66?
 3.0×10^8 m/s 4.98×10^8 m/s 1.8×10^8 m/s
11. A sound wave is a _____ wave because the wave motion and the particle motion are parallel.
transverse longitudinal electromagnetic surface
12. If an inverted pulse approaches a fixed-end boundary, the reflected pulse will be _____.
upright inverted
13. A light ray that travels from a more dense into a less dense medium will bend...
towards the normal away from the normal perpendicular to the surface
14. Light travels fastest through....
air glass diamonds vacuum

15. A wave has a wavelength of 4m and a frequency of 0.4Hz. What is its speed?
 1.6 m/s 10 m/s 0.1 m/s 16 m/s
16. The ____ of a wave depends on the medium it is traveling through.
 frequency amplitude speed period
17. The angle of incidence equals the angle of reflection because of which law?
 law of superposition law of reflection law of refraction Snell's Law
18. Sound travels fastest through....
 vacuum gases liquids solids
19. The angle of refraction _____ the angle of incidence.
 must be greater than must be less than
 must be equal to can be greater or less than
20. Upright pulse travels through a medium, it reaches a more dense medium, the transmitted pulse
 will be upright will be inverted
21. When part of your image inside a pool looks separate from your body, that is an example of ...
 amplitude diffraction refraction reflection
22. Sound cannot travel through
 vacuum gases liquids solids
23. X-ray waves are an example of ____ waves
 transverse longitudinal electromagnetic surface
24. A medium is a material that carries the ____ .
 crest amplitude wave trough
25. Upright pulse travels through a medium, it reaches a more dense medium, the reflected pulse
 will be upright will be inverted
26. According to Doppler Effect, as a sound source approaches you, the wavelength _____ as
 frequency _____
 decreases, increases decreases, decreases
 increases, decreases increases, increases